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# PRODUCTS CATALOGUE





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# HDPE FILM/BLOW

## TYPICAL APPLICATION

- Blown Films with Paperlike Quality
- Wrapping Films
- Carrier bags, counter bags.
- Food Packing
- Container
- Packing of Pharmaceuticals
- Blow Molding Bottles



HIGH DENSITY POLY ETHYLENE (HDPE)

|      | GRADE     | MFI                 |                  |                     | DENSITY<br>(GR/CM3) | TYPICAL APPLICATION  |
|------|-----------|---------------------|------------------|---------------------|---------------------|--|
|      |           | (190°C<br>/2.16 KG) | (190°C<br>/5 KG) | (190°C<br>/21.6 KG) |                     |  |
| FILM | HCH 5110A | .....               | .....            | 10                  | 0.951               | Extrusion , film,<br>blown                                   |
|      | MCH 3713  | 0.1                 | .....            | 13                  | 0.937               | Bags   |
|      | F7000     | 0.04                | .....            | .....               | 0.952               | Enhanced ultra<br>thin film                                  |
|      | EX5       | 8                   | 0.28             | .....               | 0.949               | Carrier bags/counter<br>bag/wrapping films                   |
| BLOW | 0035      | 0.28-0.43           | .....            | .....               | 0.959               | General purpose<br>houseware toys                            |
|      | BL4       | .....               | 0.35             | 9.5                 | 0.951               | High stiffness and impact good<br>stress cracking resistance |
|      | BL3       | 27                  | 1.2              | .....               | 0.954               | bottles / containers<br>(up to 5 lit)                        |
|      | HCH 5020  | 0.3                 | .....            | 22                  | 0.95                | Blow molding   |

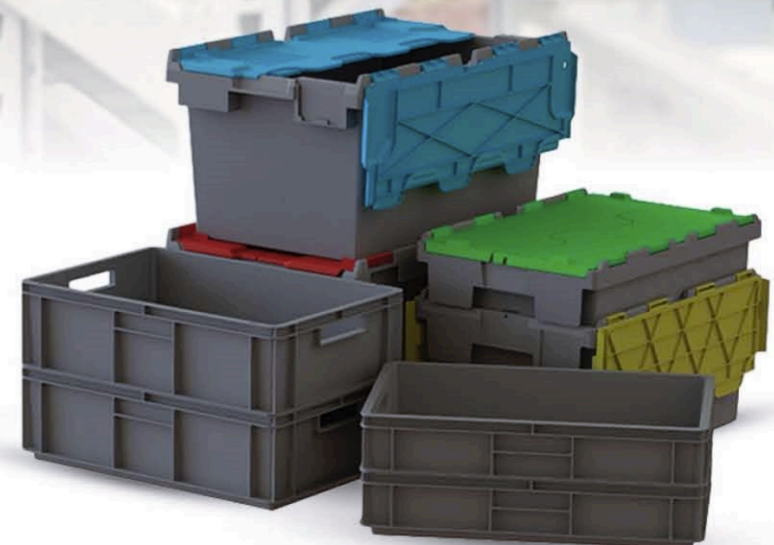


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# HDPE INJECTION

## TYPICAL APPLICATION

- ◆ Fish Boxes
- ◆ Crates & Tote Boxes
- ◆ House Wares



## HIGH DENSITY POLY ETHYLENE (HDPE)

|           | GRADE      | MFI                 |                  |                     | DENSITY<br>(GR/CM3) | TYPICAL APPLICATION  |
|-----------|------------|---------------------|------------------|---------------------|---------------------|--|
|           |            | (190°C<br>/2.16 KG) | (190°C<br>/5 KG) | (190°C<br>/21.6 KG) |                     |  |
| INJECTION | HD52511    | 11                  | .....            | .....               | 0.952               | Injection molding<br>frad  |
|           | HD52518    | 18                  | .....            | .....               | 0.952               | House ware, hall<br>fludity  |
|           | HD60511    | 11                  | .....            | .....               | 0.96                | housewares and<br>toys applications  |
|           | HD 6070 UA | .....               | 7                | .....               | 0.958               | UV stabilized for rigid items<br>such as fish boxes, Crates<br>and toys.           |
|           | HD 5218 EA | 18                  | .....            | .....               | 0.952               | Thin components such as food<br>container, houseware and toys.                     |
|           | HD 5620 EA | 20                  | .....            | .....               | 0.956               | Toyes, House ware, Thin walled<br>containers                                       |
|           | HD5030SA   | 2.2                 | .....            | .....               | 0.950               | Closures with Torque Free<br>Property  |
|           | 6040UA     | 3.7                 | .....            | .....               | 0.96                | Shipping container   |
|           | 2200J      | 5.2                 | .....            | .....               | 0.964               | Technical and industrial part/<br>Shipping container/Fish crates/<br>Storing cases |
|           | HI0500     | 4-6                 | .....            | .....               | 0.963               | Crates- Industrial parts . Thick<br>wall parts                                     |
|           | 52505UV    | 5                   | .....            | .....               | 0.952               | Containers   |
|           | 60505UV    | 5.5                 | .....            | .....               | 0.957               | Injection molding grade .<br>Crates  |



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# HDPE EXTRUSION

## TYPICAL APPLICATION

◆ Pressure Pipes

◆ Gas Pipes

◆ Water Pipes

◆ Waste & Sewer Pipes



**HIGH DENSITY POLY ETHYLENE (HDPE)**

|           | GRADE                 | MFI                 |                  |                     | DENSITY<br>(GR/CM3) | TYPICAL APPLICATION                             |
|-----------|-----------------------|---------------------|------------------|---------------------|---------------------|---|
|           |                       | (190°C<br>/2.16 KG) | (190°C<br>/5 KG) | (190°C<br>/21.6 KG) |                     |   |
| EXTRUSION | EX3-100S              | 6.2                 | 0.22             | .....               | 0.948               | High Pressure Pipe                              |
|           | EX3-80S               | 4                   | 0.43             | .....               | 0.954               | Pipe  |
|           | AM 5010 T2 N<br>(EX3) | .....               | 0.45             | .....               | 0.945               | PE-80 Pressure pipe                             |
|           | EX4 (GM 9455 F)       | 8                   | 0.28             | .....               | 0.956               | Carrier bags                                    |
|           | HM CRP<br>100 BLACK   | .....               | 0.22             | 6.2                 | 0.957               | Top quality PE100<br>pressure pipes             |
|           | HMCRP 100 N           | .....               | 0.22             | 6.2                 | 0.948               | Top quality PE100<br>pressure pipes             |
|           | 5000S                 | 0.82                | .....            | .....               | 0.95                | Fishing nets, insect<br>screens, ropes, cloth   |
| ROTO      | 3840UA                | 4                   | .....            | .....               | 0.938               | Rotational moulded<br>items with good stiffness |





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# LDPE

## TYPICAL APPLICATION

- ◆ Food Packaging
- ◆ Shrink Film
- ◆ Cast Film
- ◆ Bags & Pouches
- ◆ Carrier Bags
- ◆ General Purpose Bags



**LOW DENSITY POLYETHYLENE (LDPE)**

|           | GRADE                             | MFI<br>(190°C/2.16 KG) | DENSITY<br>(GR/CM3) | TYPICAL APPLICATION   |
|-----------|-----------------------------------|------------------------|---------------------|---|
| FILM      | 2420D                             | 0.25                   | 0.923               | Bags & Pouches... Bottles for Consumer Goods... Shrink Film... Blown Film... Film                           |
|           | L2100TN00                         | 0.3                    | 0.921               | Shrink hoods, industrial sacks, heavy duty carrier bags and liners  |
|           | LH0075                            | 0.75                   | 0.919-0.922         | Carrier bags, shrink film, industrial film, dust binliners, small bottles, blow molding of small containers |
|           | 2102TN42                          | 1.9                    | 0.921               | Food packaging  |
|           | 2102TX00                          | 1.9                    | 0.921               | Bags, liners and lamination film.   |
|           | LTM2119X<br>(LF0190)              | 1.9                    | 0.921               | GP FILM   |
|           | 2420H                             | 1.9                    | 0.924               | Bags & Pouches/Film/Shrink Film/Blown Film/Cast Film  |
|           | LF-0200                           | 2                      | 0.919-0.922         | Film for bags   |
|           | 2004TX00                          | 4.7                    | 0.921               | textile packaging   |
|           | LTL2130<br>(LFI2103/LH0030)       | 0.3                    | 0.921               | Heavy duty film   |
|           | LTM2125/37<br>(LFI2125A/L0250KJ)  | 2.5                    | 0.921               | GP film   |
|           | LTM2447/47<br>(LFI2447A/LT0470KJ) | 4.7                    | 0.924               | Light duty film / Food packaging  |
|           | 2101TN47                          | 0.85                   | 0.921               | Industrial film ,thin packaging film and carrier bags   |
|           | 2404TC47                          | 4.7                    | 0.924               | General packaging applications  |
| INJECTION | LTH1922<br>(LIM1922/LI2200)       | 22                     | 0.919               | Toys, household articles, clamping, lids  |





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# LLDPE FILM

## TYPICAL APPLICATION

- ◆ Heavy Duty Plastic Bags
- ◆ Freezer Bags
- ◆ Hand Bags
- ◆ Packaging
- ◆ Agricultural Firm



LINEAR LOW DENSITY POLYETHYLENE (LLDPE)

| FILM | GRADE      | MFI<br>(190°C/2.16 KG) | DENSITY<br>(GR/CM3) | TYPICAL APPLICATION   |
|------|------------|------------------------|---------------------|---|
|      | 209 AA     | 0.9                    | 0.92                | Liner bags, builders reel, Co <sup>2</sup> extrusion, shrink silage, green house and mulch film.                  |
|      | 209KJ      | 0.9                    | 0.92                | Liner bags, deep freeze film, garment wrap, refuse and Heavy duty sacks.  |
|      | 220AA      | 2.2                    | 0.92                | Stretch wrap, Oriented Tape. Base resin for power cable compound insulation (low voltage), fiber optic jacketing. |
|      | 220KJ      | 2.4                    | 0.921               | Liner bags, deep freeze film, garment wrap, refuse and Heavy duty sacks.  |
|      | 22501 AA   | 0.95                   | 0.922               | Stretch wrap, Oriented Tape. Base resin for power cable compound insulation (low voltage), fiber optic jacketing. |
|      | 22501 KJ   | 0.95                   | 0.922               | Liner bags, deep freeze film, garment wrap, refuse and Heavy duty sacks.  |
|      | LLD22401   | 1                      | 0.920-0.923         | Film  |
|      | LLD22402   | 2                      | 0.920-0.923         | Film  |
|      | LLD22403   | 3                      | 0.920-0.923         | Film  |
|      | LL 0410 AA | 0.9                    | 0.925               | Thin film, shrink film. Blending component with PP.   |
|      | 32604UV    | 4                      | 0.932               | High ESCR roto molded items<br>Chemical containers.   |



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# PP (HOMO POLYMER) POLYMER . FILM TYPICAL APPLICATION

- Heavy Duty Jumbo Bags
- Closures
- Furnitures
- Toys
- Caps



PP-HOMO POLYMER

|       | GRADE  | MFI<br>(230C-2.16 KG) | TYPICAL APPLICATION  |
|-------|--------|-----------------------|--|
| FILM  | ZH550J | 3.2                   | Film Yarn and Monofilament   |
|       | HP550J | 3.5                   | Carpet backings, bags, industrial fabrics, mats,<br>Artificial grass   |
|       | HP510L | 6                     | Film yarn cast, packaging twins and ropes,<br>Monofilament, Monolayer or co-extruded film<br>for packaging. Thin sheet for stationary sheets           |
|       | HP525J | 3                     | High quality packaging film for food/ Lamination<br>to other films/ Metalizing Film/ Medical<br>packaging  |
| FIBER | C 30 S | 6                     | FIBRES   |
|       | T 30 G | 3.2                   | FIBRES   |
|       | T 30 S | 3.2                   | FIBRES   |
|       | V30S   | 16                    | FIBRES   |
|       | Z30S   | 25                    | FIBRES   |
|       | 1102XK | 4                     | Fiber & Raffia   |
|       | 1102L  | 4.5                   | Fiber & Raffia   |
|       | ZH552R | 25                    | low denier staple fibers for nonwoven fabrics  |
|       | HP565S | 38                    | Fine denier non-woven such as Non-woven<br>fabrics for industrial and medical applications.<br>Backing and lining for furniture and carpet industries. |
|       | V 79 S | 21                    | FIBRES   |





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# PP (HOMO POLYMER) INJECTION - EXTRUSION - RANDOM TYPICAL APPLICATION

- ◆ Heavy Duty Jumbo Bags
- ◆ Closures
- ◆ Furnitures
- ◆ Toys
- ◆ Caps



PP-HOMO POLYMER

|                      | GRADE   | MFI<br>(230C-2.16 KG) | TYPICAL APPLICATION  |
|----------------------|---------|-----------------------|--|
| INJECTION            | F 30 G  | 12                    | Injection Moulding   |
|                      | X30G    | 9                     | injection molding/ house wares , toys ,garden furniture and parts for the auto motive industry   |
|                      | 1101XXS | 35                    | Injection molding  |
|                      | Z30G    | 25                    | injection molding / suitable for food contact  |
|                      | V 30 G  | 16                    | Injection Molding  |
| EXTRU SION           | HP501D  | 0.7                   | Technical extrusion for strapping, sheet, profiles, nets and small diameter pipes such as refills for ball pens. Blow molding containers |
|                      | T 31 SE | 3.8                   | Extrusion & THERMOFORMING  |
| THERMO FORMING       | 1102H   | 2                     | Thermoforming  |
| RANDOM POLYPROPYLENE | 3212 E  | 0.25                  | Pipe   |



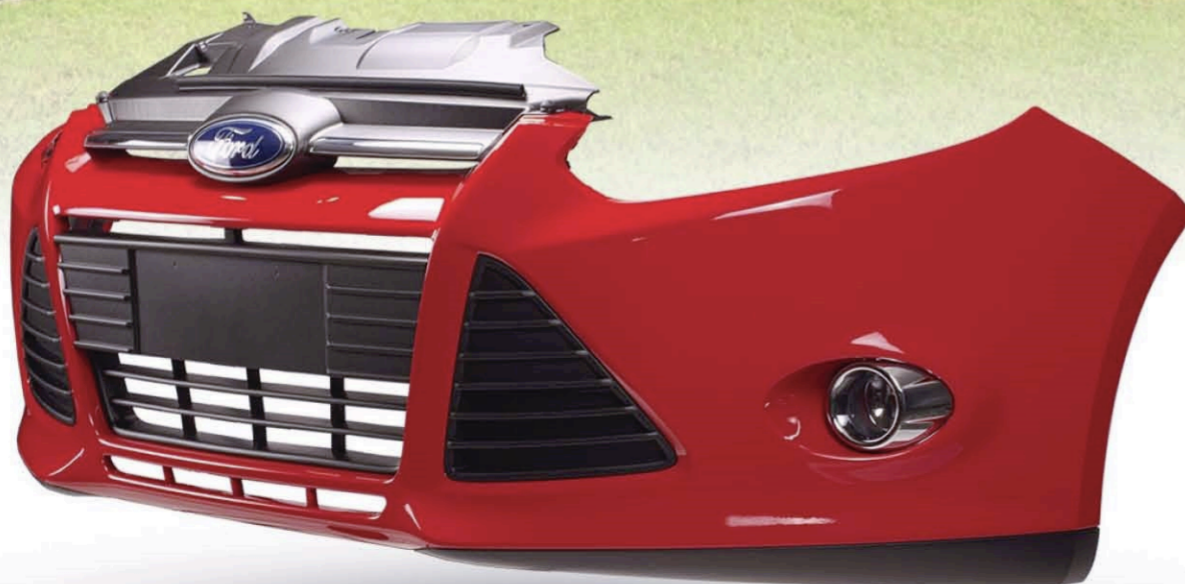


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# PP (CO POLYMER)

## TYPICAL APPLICATION

- ◆ Lamination
- ◆ Containers
- ◆ Packaging of Stationery
- ◆ Filters
- ◆ Packaging of Good



## PP-COPOLYMER

|           | GRADE  | MFI<br>(230C-2.16 KG) | TYPICAL APPLICATION   |
|-----------|--------|-----------------------|---|
| EXTRUSION | ZR230  | 0.35                  | Extrusion / pressure pipes for industry, heating pipes for under floor hot water heating, domestic service pipes  |
|           | EPD60R | 0.4                   | Extrusion blow molding applications / include tool boxes, auto motive parts suitcases and large containers  |
|           | ZB332C | 0.35                  | Extrusion and blow molding /profiles, pipes and tough sheet for industrial applications.  |
| INJECTION | EPC40R | 7                     | injection molding/ Battery cases, cooling water compensation reservoirs, brake fluid reservoirs, wash water reservoir   |
|           | EP548R | 21                    | injection molding/ Thin-walled or long flow path articles such as flower pots, filters, filters housings and appliance components   |
|           | EP440L | 6                     | Injection molding/ Packaging, automotive and consumer goods industries, Luggage, paint pails, buckets   |
|           | EPC40R | 7                     | injection molding / Automotive components such as battery cases, brake fluid reservoirs, wash water reservoirs, dashboard supports, luggage compartment trims & door trim panels                                    |
| BLOW      | RP270G | 1.8                   | Blow moulded medical articles. transparent bottles & containers for blood, intravenous solutions, pharmaceutical solutions, medicines & salves. Packaging for health care products. Film & sheet for thermoforming. |





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# ABS

## TYPICAL APPLICATION

- Office Supplies
- Home Appliances Casing
- Heat Resistant Home
- Printing



ACRYLONITRILE BUTADIENE STYRENE (ABS)

| GRADE  | MFI                 |                  | VICAT<br>SOFTENING<br>POINT ( ° C) | TYPICAL APPLICATION   |
|--------|---------------------|------------------|------------------------------------|---|
|        | (190°C<br>/2.16 KG) | (190°C<br>/5 KG) |                                    |   |
| SV0157 | 0.5                 | .....            | 101                                | Extrusion, Refrigerator Liners  |
| HR2340 | 1                   | .....            | 112                                | Automotive Parts, Heat Resistant<br>Home Appliances   |
| HR2320 | 1.2                 | .....            | 103                                | Automotive Parts, Heat Resistant Home<br>Appliances   |
| SD0150 | 1.8                 | .....            | 98                                 | General Injection, Home Appliances<br>Casing  |
| SD0152 | 2.4                 | .....            | 99                                 | General Injection, Home Appliances<br>Casing  |
| SD0151 | 2.5                 | .....            | 99                                 | Home Appliances, Office<br>Supplies   |
| SD0140 | 3.2                 | .....            | 97                                 | Office Supplies, Home Appliances<br>Casing  |
| ABS 50 | .....               | 35               | 95                                 | Electronic and Electrical parts, vacuum<br>cleaner, washing machine cover and<br>Refrigerator |
| ABS 75 | .....               | 6.5              | 98                                 | Refrigerator interior container and door<br>liner(cyclopentane Blowing agent use)...          |





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# PET

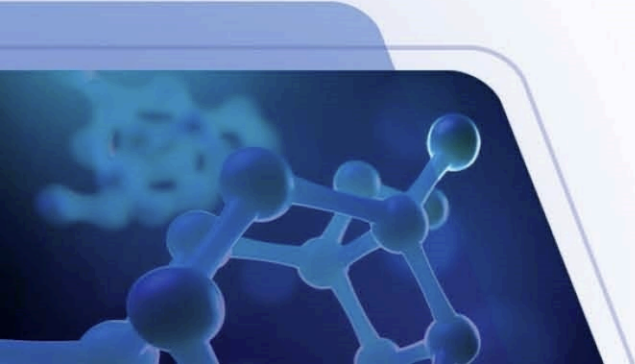
## TYPICAL APPLICATION

- ◆ Packaging of all carbonated drinks
- ◆ Packaging Food
- ◆ Edible Oil
- ◆ Carbonated Water



POLY ETHYLENE TEREPHTHALATE (PET)

| GRADE  | TYPICAL APPLICATION  |
|--------|--|
| BG-732 | Bottle Grade   |
| BG-781 | Packaging various kinds of plain drinking water, packaging solid foods and unflavored edible oils, packaging luxurious goods |
| BG-785 | Packaging various kinds of plain drinking water, packaging solid foods and unflavored edible oils, packaging luxurious goods |
| BG-821 | Packaging all kinds of carbonated drinks, packaging corruptible foods, packaging water reservoir in 4 liter or more volumes  |
| BG-825 | Bottle Grade   |
| TG 645 | Yarn   |
| TG 641 | Yarn   |





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# PBR - SBR

## TYPICAL APPLICATION

- ◆ Mechanical Goods
- ◆ Tires
- ◆ Molded & Extruded Mechanical Rubber Goods
- ◆ Foot Wear
- ◆ Light & Dark Colored Mechanical Goods



PBR

| GRADE | TYPICAL APPLICATION  |
|-------|--|
| 1220  | Automobile tires, conveyor belts, footwear, cables, hosepipes and different technical rubber goods |
| 1210S | General application  |

SBR

| GRADE | TYPICAL APPLICATION   |
|-------|---|
| 1712  | Automobile tires, conveyor belts, footwear, cables, hosepipes and different technical rubber goods                                |
| 1502  | Tire sidewall, floor coverings, bicycle tires, footwear, rubber toys, cables, rubber pipes, and other light coloured rubber goods |
| 1500  | Tire treads, Cameback, Footware, Mechanical goods   |





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# PC

## TYPICAL APPLICATION

- ◆ Windows
- ◆ Helmet
- ◆ Instrument case and mechanical goods



PC

| GRADE  | MFI<br>(300°C-1.2 KG) | TYPICAL APPLICATION   |
|--------|-----------------------|---|
| PC0407 | 4.1-7                 | Suitable for injection modeling and Extrusion, Business Machines, Packaging, Sports, Appliances, Electrical, Lighting, Wire and Cable, Automotive, Sheets and...          |
| PC0710 | 7.1-10                | Suitable for injection modeling and Extrusion, Optical, Business Machines, Packaging, Sports, Appliances, Electrical, Lighting, Wire and Cable, Automotive, Sheets and... |
| PC1822 | 18.1-22               | Suitable for injection modeling, Sports, Electrical, Automotive, Construction and Housing.  |
| PC2230 | 22.1-30               | Suitable for injection modeling, Sports, Electrical, Automotive, Construction and Housing.  |

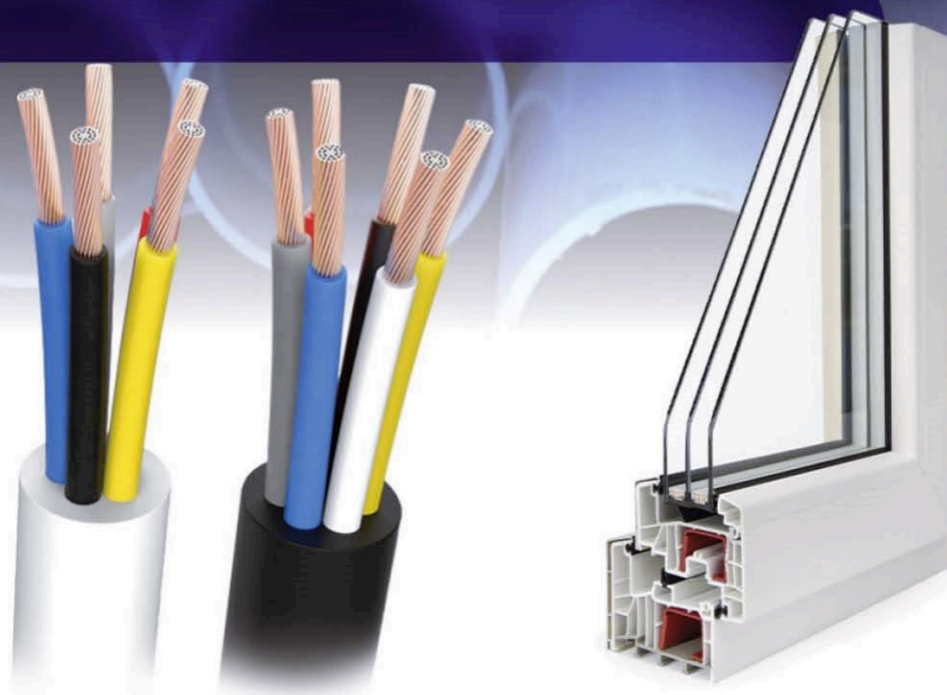


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# PVC

## TYPICAL APPLICATION

- ◆ Extrusion of Flexible Section & Hoses
- ◆ Cable Industry
- ◆ Window Profile
- ◆ Injection Molding
- ◆ Electric Wires



POLY VINYL CHLORIDE (PVC)

| GRADE | K-VALUE | TYPICAL APPLICATION   |
|-------|---------|---|
| S57   | 57      | Extrusion of flexible sections and hoses  |
| S60   | 60      | Extrusion-film hollow   |
| S65   | 65      | Extrusion of flexible sections and hoses Calendaring                                    |
| S67   | 67      | rigid pipes (pressure and non-pressure). rigid profiles. Corrugated tubes and conduits. |
| S70   | 70      | for low Fish-Eye applications, food contact applications or roto moulding               |
| E6834 | 68      | Rigid Foam for Flooring , Leather Cloth , Sealing Compounds, Coating and Laminating     |
| S7042 | 70      | Plasticized Film and Profiles, Cable Insulation, Injection Molded Parts , Shoe Soles    |
| K65   | 65      | Rigid Profiles - Pipes - Technical Articles   |
| K67   | 67      | Rigid Profiles - Pipes - Window & Door Frames   |
| K70   | 70      | Medical Articles Food Packaging Electrical Cables                                       |





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# HIPS - GPPS

## TYPICAL APPLICATION

- ◆ Packaging Containers
- ◆ Fridge Doors
- ◆ Egg Box
- ◆ Cabinet Liners
- ◆ Industrial Parts
- ◆ Freezer & Refrigerator Line



**HIGH IMPACT POLYSTYRENE (HIPS)**

| GRADE     | MFR | TYPICAL APPLICATION                                    |
|-----------|-----|--|
| HIPS 7240 | 97  | Dirty sheet, cups, trays, egg boxes, general packaging |

**GENERAL PURPOSE POLYSTYRENE (GPPS)**

| GRADE     | MFR | TYPICAL APPLICATION  |
|-----------|-----|--|
| GPPS 1160 | 2.5 | shower cabinets, lighting thin films, insulation board                             |
| GPPS 1460 | 6   | Insulation board (xps), foam sheet of food & fruits trays                          |
| GPPS 1540 | 11  | Packaging articles, office equipment, pen barrels, crisper boxes for refrigerators |
| GPPS 1115 | 11  | boxes for refrigerators, pen barrels, cups   |
| GPPS 1028 | 2.4 | boxes for refrigerators, pen barrels, cups   |





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# EPS

## TYPICAL APPLICATION

- ◆ Insulation
- ◆ Big Packing Products
- ◆ Construction Application



EXPANDED POLYSTYRENE (EPS)

| GRADE | MFR        | TYPICAL APPLICATION                               |
|-------|------------|---|
| F40   | 1.9 – 2.5  | Insulation, big packing products                  |
| F50   | 1.6 – 1.9  | Insulation, big packing products                  |
| F100  | 1.3 - 1.6  | Insulation, big packing products                  |
| F150  | 0.9 - 1.3  | Medium-density Insulation, middle-density packing |
| F250  | 0.7 - 0.9  | Medium-density Insulation, Special use products   |
| F350  | 0.47 - 0.7 | High-density Insulation, Special use products     |
| F450  | 0.3 – 0.47 | High-density Insulation, Special use products     |





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“We move products where is plentiful to  
where is most needed”



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