

## Iran Petrochemical (PCC) BL3 HF 4760 High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Blow Molding Grade

### Material Notes:

BL3 is a high density polyethylene with 1-Butene as co monomer. It is high density and stiffness, good ESCR, high rigidity, good flowability and impact strength. Applications: small blow molding, bottles, containers (up to 5 L), packing of pharmaceuticals & surfactants. Information provided by Iran Petrochemical Commercial Co.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Iran-Petrochemical-PCC-BL3-HF-4760-High-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_Iran-Petrochemical-PCC-BL3-HF-4760-High-Density-Polyethylene.php)

| Physical Properties                   | Metric   | English  | Comments     |
|---------------------------------------|--|--|--------------|
| Density                               | 0.954 g/cc   | 0.0345 lb/in <sup>3</sup>                            | ISO 1183     |
| Environmental Stress Crack Resistance | 5.0 hour<br>@Pressure 3.50 MPa                       | 5.0 hour<br>@Pressure 508 psi                        | ISO CD 16770 |
| Melt Flow                             | 1.2 g/10 min<br>@Load 5.00 kg,<br>Temperature 190 °C | 1.2 g/10 min<br>@Load 11.0 lb,<br>Temperature 374 °F | ISO 1133     |
|                                       | 23 g/10 min<br>@Load 21.6 kg,<br>Temperature 190 °C  | 23 g/10 min<br>@Load 47.6 lb,<br>Temperature 374 °F  | ISO 1133     |

| Mechanical Properties   | Metric                 | English                    | Comments          |
|-------------------------|------------------------|----------------------------|-------------------|
| Hardness, Shore D       | 62                     | 62                         | ISO 868           |
| Tensile Stress          | 32.0 MPa               | 4640 psi                   | at Break; ISO 527 |
| Tensile Strength, Yield | 26.0 MPa               | 3770 psi                   | ISO 527           |
| Elongation at Break     | >= 600 %               | >= 600 %                   | ISO 527           |
| Elongation at Yield     | 10 %                   | 10 %                       | ISO 527           |
| Tensile Modulus         | 1.25 GPa               | 181 ksi                    | ISO 527           |
| Charpy Impact, Notched  | 1.00 J/cm <sup>2</sup> | 4.76 ft-lb/in <sup>2</sup> | ISO 179/1eA       |

| Thermal Properties      | Metric      | English    | Comments     |
|-------------------------|-------------|------------|--------------|
| Softening Point         | 77.0 °C     | 171 °F     | ISO 306      |
| Brittleness Temperature | >= -80.0 °C | >= -112 °F | ASTM D746-72 |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
|------------------------|-------|----------|

| Descriptive Properties (MPa) | Value | Comments        |
|------------------------------|-------|-----------------|
| Swell Ratio, %               | 120   | in, DIN 19537-2 |

## Contact Songhan Plastic Technology Co.,Ltd.

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