

## Iran Petrochemical (PCC) 60505 High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded

### Material Notes:

60505 is a HDPE injection molding grade which combines high stiffness with good physical properties. This resin is well suited for crates and toys applications. Application: crates, injection molding. Information provided by Iran Petrochemical Commercial Co.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Iran-Petrochemical-PCC-60505-High-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_Iran-Petrochemical-PCC-60505-High-Density-Polyethylene.php)

| Physical Properties | Metric   | English  | Comments   |
|---------------------|--|--|------------|
| Density             | 0.957 g/cc   | 0.0346 lb/in <sup>3</sup>                            | ASTM D1505 |
| Melt Flow           | 5.5 g/10 min<br>@Load 2.16 kg,<br>Temperature 190 °C | 5.5 g/10 min<br>@Load 4.76 lb,<br>Temperature 374 °F | ASTM D1238 |

| Mechanical Properties     | Metric     | English        | Comments    |
|---------------------------|------------|----------------|-------------|
| Tensile Strength at Break | 16.0 MPa   | 2320 psi       | ASTM D638   |
| Tensile Strength, Yield   | 30.0 MPa   | 4350 psi       | ASTM D638   |
| Elongation at Break       | 200 %      | 200 %          | ASTM D638   |
| Flexural Modulus          | 1.48 GPa   | 215 ksi        | ASTM D790   |
| Izod Impact, Notched      | 0.460 J/cm | 0.862 ft-lb/in | ASTM D256/A |

| Thermal Properties          | Metric  | English | Comments   |
|-----------------------------|---------|---------|------------|
| Vicat Softening Point       | 127 °C  | 261 °F  | ASTM D1525 |
| Heat Distortion Temperature | 78.0 °C | 172 °F  | ASTM D648  |

## Contact Songhan Plastic Technology Co.,Ltd.

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