

## Iran Petrochemical (PCC) SD-0150 Acrylonitrile Butadiene Styrene

Category : Polymer , Thermoplastic , ABS Polymer

**Material Notes:**

General Purpose ABS, SD 0150 grade, is a rigid thermoplastic with good processing characteristics. It is a high flow injection molding grade with considerable impact strength and medium heat deflection. Applications: auto parts, home appliances, electrical parts/fittings, telecommunication and electronic devices. Information provided by Iran Petrochemical Commercial Co.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Iran-Petrochemical-PCC-SD-0150-Acrylonitrile-Butadiene-Styrene.php](http://www.lookpolymers.com/polymer_Iran-Petrochemical-PCC-SD-0150-Acrylonitrile-Butadiene-Styrene.php)

| Physical Properties   | Metric  | English   | Comments   |
|-----------------------|---|---|------------|
| Density               | 1.04 g/cc   | 0.0376 lb/in <sup>3</sup>                             |            |
| Linear Mold Shrinkage | 0.0030 - 0.0060 cm/cm                                 | 0.0030 - 0.0060 in/in                                 | ASTM D955  |
| Melt Flow             | 1.7 g/10 min<br>@Load 5.00 kg,<br>Temperature 200 Â°C | 1.7 g/10 min<br>@Load 11.0 lb,<br>Temperature 392 Â°F | ASTM D1238 |

| Mechanical Properties      | Metric                 | English                    | Comments  |
|----------------------------|------------------------|----------------------------|-----------|
| Hardness, Rockwell R       | 104                    | 104                        | ASTM D785 |
| Tensile Strength, Yield    | 43.1 MPa               | 6250 psi                   | ASTM D638 |
| Elongation at Break        | 40 %                   | 40 %                       | ASTM D638 |
| Flexural Yield Strength    | 62.8 MPa               | 9100 psi                   | ASTM D790 |
| Flexural Modulus           | 2.01 GPa               | 292 ksi                    | ASTM D790 |
| Izod Impact, Notched (ISO) | 25.0 kJ/m <sup>2</sup> | 11.9 ft-lb/in <sup>2</sup> | ISO 180   |

| Thermal Properties    | Metric   | English | Comments   |
|-----------------------|----------|---------|------------|
| Vicat Softening Point | 99.0 Â°C | 210 Â°F | ASTM D1525 |
| Flammability, UL94    | HB       | HB      |            |

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