Diamond HI-800

High Impact Polystyrene

Pak Petrochemical Industries (Pvt.) Ltd.

Message:

Diamond HI-800 is a High Impact Polystyrene grade with Opaque & matt finish surface. It gives excellent mechanical and heat resistance properties while providing with easy process ability and molding applications.

Characteristics:

High flow, Superior heat characteristics, Better mold capability, Good strength Good practical toughness Excellent mold release behavior

Applications:

Air conditioner grills.

TV cabinets, Cosmetic packing parts Stationary products and thin wall molding.

| General Information | | | | | |
|--|-----------------------------|----------|-------------|--|--|
| Features | Impact resistance, high | | | | |
| | Recyclable materials | | | | |
| | Workability, good | | | | |
| | Good formability | | | | |
| | Good strength | | | | |
| | High liquidity | | | | |
| | Heat resistance, high | | | | |
| | Good toughness | | | | |
| | Compliance of Food Exposure | | | | |
| | Good demoulding performance | | | | |
| | | | | | |
| Uses | Cosmetic Packaging | | | | |
| | Thin wall parts | | | | |
| | Home appliance components | | | | |
| | Stationery | | | | |
| | | | | | |
| Agency Ratings | FDA 21 CFR 177.1640 | | | | |
| Appearance | Opacity | | | | |
| | Rough surface polishing | | | | |
| | | | | | |
| Forms | Particles | | | | |
| Processing Method | Injection molding | | | | |
| Physical | Nominal Value | Unit | Test Method | | |
| Specific Gravity ¹ | 1.04 | g/cm³ | ASTM D792 | | |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) | 12 | g/10 min | ASTM D1238 | | |
| Water Absorption | | | | | |

| 23°C, 24 hr, 50% RH | < 0.10 | % | |
|-------------------------------------|---------------|------|-------------|
| Balance | < 0.10 | % | |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | | | ASTM D638 |
| Yield | 15.4 | MPa | ASTM D638 |
| Fracture | 15.4 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 73 | % | ASTM D638 |
| Flexural Strength | 30.0 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Unnotched Izod Impact | 150 | J/m | ASTM D256 |
| Dart Drop Impact | 12.8 | J | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (| 0.45 | | |
| MPa, Unannealed) | 83.0 | °C | ASTM D648 |
| Vicat Softening Temperature | 93.0 | °C | ASTM D1525 |
| Injection | Nominal Value | Unit | |
| Processing (Melt) Temp | < 260 | °C | |
| NOTE | | | |
| 1. | 23°C | | |

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