

INEOS HDPE HP50-25-153

High Density Polyethylene Copolymer

INEOS Olefins & Polymers USA

Message:

HP50-25-153 is a high performance high density polyethylene copolymer for use in blow molding applications requiring excellent environmental stress crack resistance (ESCR). This grade contains an antistat additive. This product meets the Food and Drug Administration requirements of 21CFR 177.1520.

| General Information | | | |
|---|---------------------------|-------------------|-------------|
| Additive | Antistatic | | |
| Features | Antistatic | | |
| | Copolymer | | |
| | Food Contact Acceptable | | |
| | High Density | | |
| High ESCR (Stress Crack Resist.) | | | |
| Uses | Blow Molding Applications | | |
| Agency Ratings | EC 1907/2006 (REACH) | | |
| | FDA 21 CFR 177.1520 | | |
| RoHS Compliance | Contact Manufacturer | | |
| Forms | Pellets | | |
| Processing Method | Blow Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.951 | g/cm ³ | ASTM D4883 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 0.22 | g/10 min | ASTM D1238 |
| Environmental Stress-Cracking Resistance (100% Igepal, F50) | 200 | hr | ASTM D1693B |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 68 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ¹ | | | ASTM D638 |
| Yield | 26.9 | MPa | |
| Break | 27.6 | MPa | |
| Tensile Elongation ² | | | ASTM D638 |
| Yield | 10 | % | |
| Break | > 700 | % | |
| Flexural Modulus | | | ASTM D790A |
| 2% Secant | 938 | MPa | |
| Tangent | 1140 | MPa | |
| Impact | Nominal Value | Unit | Test Method |

| Notched Izod Impact | 300 | J/m | ASTM D256 |
|-----------------------------------|---------------|-------------------|-------------|
| Notched Izod Impact (Area) | 12.0 | kJ/m ² | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed | 68.9 | °C | |
| 1.8 MPa, Unannealed | 45.0 | °C | |
| Brittleness Temperature | < -75.0 | °C | ASTM D746 |
| Vicat Softening Temperature | 125 | °C | ASTM D1525 |
| NOTE | | | |
| 1. | 51 mm/min | | |
| 2. | 51 mm/min | | |

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