

ExxonMobil™ HDPE HD 6719 Series

High Density Polyethylene Resin

Product Description

HD 6719 is a narrow molecular weight hexene copolymer designed for a wide range of injection molding applications, combining easy processability with good toughness properties. Ideally suited for articles requiring low warpage, glossy surfaces and cold temperature impact resistance.

General

| | | |
|---------------------------|---|---|
| Availability ¹ | ▪ Latin America | ▪ North America |
| Additive | ▪ HD 6719.17: Antioxidant: Yes | ▪ HD 6719.62: Antistatic: Yes |
| Applications | ▪ Food Packaging Containers ▪ Houseware Articles | ▪ Lawn & Garden Accessories ▪ Soda Carrier Totes ▪ Toys |
| Revision Date | ▪ 03/13/2015 | |

| Resin Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|---|-------------------------|-------------------------|------------------|
| Density | 0.952 g/cm ³ | 0.952 g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 19.0 g/10 min | 19.0 g/10 min | ASTM D1238 (mod) |

| Thermal | Typical Value (English) | Typical Value (SI) | Test Based On |
|---|-------------------------|--------------------|---------------|
| Deflection Temperature Under Load (DTUL) at 66psi - Unannealed | 164 °F | 73 °C | ASTM D648 |
| Deflection Temperature Under Load (DTUL) at 264psi - Unannealed | 114 °F | 46 °C | ASTM D648B |
| Peak Melting Temperature | 267 °F | 131 °C | ASTM D3418 |

| Molded Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|---------------------------------------|-------------------------|--------------------|-------------------|
| Tensile Strength at Yield | 3700 psi | 26 MPa | ASTM D638 |
| Elongation at Break | 270 % | 270 % | ExxonMobil Method |
| Flexural Modulus | | | ASTM D790B |
| 1% Secant | 180000 psi | 1300 MPa | |
| 2% Secant | 160000 psi | 1100 MPa | |
| Environmental Stress-Crack Resistance | | | ASTM D1693B |
| 10% Igepal, F50 | < 1 hr | < 1 hr | |

| Impact | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------------|-------------------------|--------------------|---------------|
| Notched Izod Impact (-40°F (-40°C)) | 0.61 ft·lb/in | 32 J/m | ASTM D256 |

Additional Information

- Properties are based on compression molded samples.
- Test procedures may be modified to accommodate operating conditions or facility limitations.
- Tensile Strength at Yield and Elongation at Break tested using ASTM D638 Type IV, 50 mm/min.

Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product is not intended for use in medical applications and should not be used in any such applications.

Notes

Typical properties: these are not to be construed as specifications.

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

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For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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