

ExxonMobil™ HDPE HD 8570 Series

High Density Polyethylene Resin

Product Description

ExxonMobil™ HD 8570 is a high density hexene copolymer designed to offer excellent stiffness and processability. This resin is ideally suited for applications that require the optimum balance of stiffness, ductility, processability and surface appearance.

General

| | |
|---------------------------|--|
| Availability ¹ | <ul style="list-style-type: none"> Latin America North America |
| Additive | <ul style="list-style-type: none"> HDP8570.29: Long Term UV-15 Stabilizer: Yes HD 8570.29: Long Term UV-15 Stabilizer: Yes |
| Applications | <ul style="list-style-type: none"> Consumer Articles Playground Equipment Toys Water Sports Articles |
| Form(s) | <ul style="list-style-type: none"> Pellets Powder |
| Revision Date | <ul style="list-style-type: none"> 04/30/2020 |

Resin Properties

| | Typical Value (English) | Typical Value (SI) | Test Based On |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density | 0.940 g/cm ³ | 0.940 g/cm ³ | ASTM D1505 |
| Melt Index (190°C/2.16 kg) | 7.0 g/10 min | 7.0 g/10 min | ASTM D1238 |
| Peak Melting Temperature | 259 °F | 126 °C | ExxonMobil Method |

Thermal

| | Typical Value (English) | Typical Value (SI) | Test Based On |
|---|-------------------------|--------------------|---------------|
| Deflection Temperature Under Load (DTUL) at 66psi - Unannealed | 136 °F | 58 °C | ASTM D648 |
| Deflection Temperature Under Load (DTUL) at 264psi - Unannealed | 100 °F | 38 °C | ASTM D648 |

Molded Properties

| | Typical Value (English) | Typical Value (SI) | Test Based On |
|--|-------------------------|--------------------|---------------|
| Tensile Strength at Yield 2.0 in/min (50 mm/min) | 2900 psi | 20 MPa | ASTM D638 |
| Elongation at Yield (2.0 in/min (50 mm/min)) | 10 % | 10 % | ASTM D638 |
| Flexural Modulus - 1% Secant | 110000 psi | 750 MPa | ASTM D790B |
| Environmental Stress-Crack Resistance 10% Igepal, F50 | 6 hr | 6 hr | ASTM D1693A |
| 100% Igepal, F50 | 30 hr | 30 hr | |

Impact

| | Typical Value (English) | Typical Value (SI) | Test Based On |
|-----------------------------------|-------------------------|--------------------|---------------|
| Impact Strength | | | ARM |
| -40°F (-40°C), 0.125 in (3.18 mm) | 54 ft·lb | 73 J | |
| -40°F (-40°C), 0.250 in (6.35 mm) | 175 ft·lb | 237 J | |

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.

Processing Statement

All physical properties were measured on 3 mm rotomolded samples unless a different value is shown. ESCR was measured on compression molded plaques.

Tensile Strength at Yield and Elongation at Yield tested using ASTM D638 Type IV, 2 in/min. Flexural Modulus was measured at 0.5 in/min.

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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