



EVERCAP™ DMDF-1250 NT 7

High Density Polyethylene Resin

Overview

EVERCAP™ DMDF-1250 NT 7 High Density Polyethylene Resin (HDPE) enables the right performance properties to meet demanding closure and fitment application needs. It is intended for use in both compression and injection molded closure applications including carbonated soft drink and hot fill closures. Its unique properties also make it suitable for living hinge closure applications. This resin has been designed to meet demanding performance requirements, especially in the areas of environmental stress crack resistance, impact strength, and sensory, while maintaining good processing characteristics beneficial to molders.

Main Characteristics:

- Excellent ESCR, Stiffness, and Impact Strength
- Excellent Sensory Properties
- Excellent Processing Characteristics
- Contains Slip Agent

Complies with:

- U.S. FDA 21 CFR 177.1520(c)3.2a
- Europe Commission Regulation (EU) No 10/2011
- Canadian HPFB No Objection

Consult the regulations for complete details.

Additive

- Antiblock: No
- Slip: 1000 ppm
- Processing Aid: No

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.958 g/cm ³	0.958 g/cm ³	ASTM D792
Base Density ¹	0.955 g/cm ³	0.955 g/cm ³	Dow Method
Melt Index (190°C/2.16 kg)	1.5 g/10 min	1.5 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693
122°F (50°C), 10% Igepal, F50	272 hr	272 hr	
122°F (50°C), 100% Igepal, F50	> 2000 hr	> 2000 hr	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ASTM D638
Yield	4100 psi	28.3 MPa	
Break	3210 psi	22.1 MPa	
Tensile Elongation			ASTM D638
Yield	9.0 %	9.0 %	
Break	690 %	690 %	
Flexural Modulus - 2% Secant	160000 psi	1100 MPa	ASTM D790B
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	60	60	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	155 °F	68.3 °C	
Vicat Softening Temperature	261 °F	127 °C	ASTM D1525
Melting Temperature (DSC)	266 °F	130 °C	Dow Method
Peak Crystallization Temperature (DSC)	243 °F	117 °C	Dow Method

Additional Information

Plaque molded and tested in accordance with ASTM D 4976.

