

CONTINUUM™ DMDA-1250 NT 7 Bimodal Polyethylene Resin

Overview

CONTINUUM™ DMDA -1250 NT 7 Bimodal High Density Polyethylene Resin (HDPE) is produced via Unipol II™ Process Technology from Dow and is intended for use in compression and injection molding applications such as closures. This resin has been designed to provide excellent processability for molders and to meet the rigorous performance characteristics of environmental stress crack resistance, stiffness and impact strength.

Main Characteristics:

- High Performance Resin
- · Designed with a balance between high ESCR, Stiffness and processing
- · Excellent organoleptic properties
- · Complies with
 - U.S. FDA 21 CFR 177.1520 (c) 3.2 a
 - Canadian HPFB No Objection (with limitations)
 - · Consult the regulations for complete details.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.955 g/cm³	0.955 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	1.5 g/10 min	1.5 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			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 Modulus			ASTM D638
1% Secant	196000 psi	1350 MPa	
2% Secant	163000 psi	1120 MPa	
Tensile Strength			ASTM D638
Yield	3410 psi	23.5 MPa	
Break	2910 psi	20.1 MPa	
Tensile Elongation			ASTM D638
Yield	6.3 %	6.3 %	
Break	860 %	860 %	
Flexural Modulus - 2% Secant	243000 psi	1680 MPa	ASTM D790
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.

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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