

CONTINUUM™ DMDA-1250 NT 7

Bimodal Polyethylene Resin

The Dow Chemical Company

Technical Data

Product Description

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)
- European Commission Regulation (EU) No 10/2011

Consult the regulations for complete details.

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet		
Search for UL Yellow Card	• The Dow Chemical Company		
Availability	• Asia Pacific	• Latin America	• North America
Agency Ratings	• EU 10/2011	• FDA 21 CFR 177.1520(c) 3.2a	• HPFB (Canada) No Objection ²
Forms	• Pellets		
Processing Method	• Compression Molding	• Injection Molding	

Physical	Nominal Value Unit	Test Method
Specific Gravity	0.955 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.5 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance		ASTM D1693
50°C, 10% Igepal, F50	272 hr	
50°C, 100% Igepal, F50	> 2000 hr	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		ASTM D638
1% Secant	1350 MPa	
2% Secant	1120 MPa	
Tensile Strength		ASTM D638
Yield	23.5 MPa	
Break	20.1 MPa	
Tensile Elongation		ASTM D638
Yield	6.3 %	
Break	860 %	
Flexural Modulus - 2% Secant	1680 MPa	ASTM D790

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
0.45 MPa, Unannealed	68.3 °C	
Vicat Softening Temperature	127 °C	ASTM D1525
Melting Temperature (DSC)	130 °C	Internal Method
Peak Crystallization Temperature (DSC)	117 °C	Internal Method

Additional Information

Plaque molded and tested in accordance with ASTM D 4976.