

CONTINUUM™ DMDE-1250 NT 7

High Density Polyethylene Resin
The Dow Chemical Company

Message:

CONTINUUM™ DMDE-1250 NT 7 High Density Polyethylene Resin (HDPE) is intended for use in both compression and injection molded closure applications. This resin has been designed to meet demanding performance requirements, especially in the areas of environmental stress crack resistance, stiffness, impact strength, and sensory, while maintaining good processing characteristics beneficial to molders.

Main Characteristics:

- Excellent ESCR, Stiffness, and Impact Strength
- Excellent Processing Characteristics
- Contains Slip Agent
- Complies with:
 - U.S. FDA 21 CFR 177.1520(c) 3.2a.

Consult the regulations for complete details.

General Information			
Additive	Sliding agent (2000 ppm)		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
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	ASTM D1693
50°C, 100% Igepal, F50	> 2000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	28.3	MPa	ASTM D638
Fracture	22.1	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	9.0	%	ASTM D638
Fracture	690	%	ASTM D638
Flexural Modulus - 2% Secant	1100	MPa	ASTM D790B
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	68.3	°C	ASTM D648
Vicat Softening Temperature	127	°C	ASTM D1525
Melting Temperature (DSC)	130	°C	Internal method
Peak Crystallization Temperature (DSC)	117	°C	Internal method
Additional Information			

根据 ASTM D 4976 进行基板模制和测试.

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