CONTINUUM™ DMDC-1270 NT 7

High Density Polyethylene Resin

The Dow Chemical Company

Message:

CONTINUUM™ DMDC-1270 NT 7 High Density Polyethylene Resin (HDPE) is intended for use in both compression and injection molded closure applications including carbonated soft drink and hot fill closures. 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 Sensory Properties
Excellent Processing Characteristics
Contains Slip Additive
Complies with
U.S. FDA 21 CFR 177.1520(c)3.2a
Canadian HPFB No Objection
Europe Commission Regulation (EU) No 10/2011
Consult the regulations for complete details.

General Information			
Additive	Sliding agent (1000 ppm)		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a HPFB (Canada) No Objection Europe No 10/2011		
Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.955	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693
50°C, 10% Igepal, F50	100	hr	ASTM D1693
50°C, 100% Igepal, F50	> 1000	hr	ASTM D1693
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	58		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield	27.0	MPa	ASTM D638
Fracture	26.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	9.0	%	ASTM D638
Fracture	920	%	ASTM D638
Flexural Modulus - 2% Secant	1030	MPa	ASTM D790B
Thermal	**Nominal Value**	**Unit**	**Test Method**

Deflection Temperature Under Load (0.45 MPa, Unannealed)	73.0	°C	ASTM D648
Vicat Softening Temperature	129	°C	ASTM D1525
Melting Temperature (DSC)	131	°C	Internal method
Peak Crystallization Temperature (DSC)	118	°C	Internal method

Additional Information
Plaque molded and tested in accordance with ASTM D 4976.

Recommended distributors for this material

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