DOW™ HDPE DMDD-1210 NT 7

High Density Polyethylene Resin

The Dow Chemical Company

Message:

DOW™ DMDD-1210 NT 7 High Density Polyethylene Resin 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 stiffness, impact strength, and sensory, while maintaining good processing characteristics beneficial to molders. Typical applications include injection molded closures for water, juice, dairy, and sports drinks, including hot fill and aseptic bottling applications, where minimizing the contribution of the package to the taste of the product and use of slip is a requirement.
Main Characteristics:
Excellent Stiffness and Impact Strength
Excellent Organoleptic Properties
Excellent Processing Characteristics
Complies with:
U.S. FDA 21 CFR 177.1520(c)3.1a.
EU, No 10/2011
Consult the regulations for complete details
Additives: 1500 ppm Slip

General Information	
Additive	Sliding agent (1500 ppm)
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a HPFB (Canada) No Objection Europe No 10/2011

Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.952	g/cm³	ASTM D972
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693
50°C, 10% Igepal, F50	12.0	hr	ASTM D1693
50°C, 100% Igepal, F50	22.0	hr	ASTM D1693
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	59		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield	27.3	MPa	ASTM D638
Fracture	20.5	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	13	%	ASTM D638
Fracture	1500	%	ASTM D638
Flexural Modulus - 2% Secant	1050	MPa	ASTM D790
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	125	°C	ASTM D1525

Melting Temperature (DSC)	130	°C	Internal method

Additional Information

Plaque molded and tested in accordance with ASTM D 4976.

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