EVERCAP™ DMDD-1210 NT 7
High Density Polyethylene Resin

Overview

EVERCAP™ DMDD-1210 NT 7 High Density Polyethylene Resin enables the right performance properties to meet demanding closure and fitment application needs. It 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

Additive

- Antiblock: No
- Slip: 1500 ppm
- Processing Aid: No

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.952	g/cm³	0.952	g/cm³	ASTM D972
Melt Index (190°C/2.16 kg)	10	g/10 min	10	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)					ASTM D1693
122°F (50°C), 10% Igepal, F50	12.0	hr	12.0	hr	
122°F (50°C), 100% Igepal, F50	22.0	hr	22.0	hr	
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Strength					ASTM D638
Yield	3960	psi	27.3	MPa	
Break	2970	psi	20.5	MPa	
Tensile Elongation					ASTM D638
Yield	13	%	13	%	
Break	1500	%	1500	%	
Flexural Modulus - 2% Secant	152000	psi	1050	MPa	ASTM D790
Hardness	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Durometer Hardness (Shore D)	59		59		ASTM D2240
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Vicat Softening Temperature	257	°F	125	°C	ASTM D1525
Melting Temperature (DSC)	266	°F	130	°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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