



EVERCAP™ DMDC-1210 NT 7 High Density Polyethylene Resin

Overview

EVERCAP™ DMDC-1210 NT 7 High Density Polyethylene Resin enables the right performance properties to meet the 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 bottles, where minimizing the contribution of the package to the taste of the product 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.
- Canadian HPFB No Objection
- EU, No 10/2011

Consult the regulations for complete details

Additive

- Antiblock: No
- Slip: No
- Processing Aid: No

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.952 g/cm ³	0.952 g/cm ³	ASTM D792
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.

