EVERCAP™ DMDA-1260 NT 7
High Density Polyethylene Resin

Overview

EVERCAP™ DMDA-1260 NT 7 High Density Polyethylene Resin (HDPE) enables the right performance properties to meet demanding closure and fitment application needs. It is intended for use in compression and injection molded one piece beverage closures designed primarily for applications that undergo hot fill or aseptic sterilization processes. EVERCAP™ DMDA-1260 offers improved performance for injection molded fitments designed for fitted pouches where its balance of properties are desired. EVERCAP™ DMDA-1260 delivers a combination of improved properties such as improved stiffness, higher heat deflection temperature, improved ESCR, gaseous barrier, and easy processing versus alternative HDPE systems typically used for hot fill and aseptic sterilization processes. The end result is the ability to light weight closures that are s are longer term closure performance, easy opening closures without the use of slip agent and consistent processing. for aseptic applications where an acid wash can remove the slip agent and potentially plug wash water filters.

Targeted Applications and Product Main Characteristics:

- Compression and Injection Molded Light Weight Aseptic or Hot Fill Beverage Closures
- Controlled Removal Torques without Slip for Aseptic Applications
- Excellent Stiffness, ESCR, Gaseous Barrier and Impact Strength
- Excellent Sensory Properties
- Excellent Processing Characteristics
- High Heat Deflection Temperature
- Controlled Sensory Properties

Complies with:

- U.S. FDA 21 CFR 177.1520(c)3.2a
- Europe Commission Regulation (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	0.965	g/cm³	0.965	g/cm³	ASTM D792
Base Density [1]	0.963	g/cm³	0.963	g/cm³	Dow Method
Melt Index (190°C/2.16 kg)	2.7	g/10 min	2.7	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)					ASTM D1693
122°F (50°C), 10% Igepal, F50	28.0	hr	28.0	hr	
122°F (50°C), 100% Igepal, F50	35.0	hr	35.0	hr	
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Strength					ASTM D638
Yield	4300	psi	29.6	MPa	
Break	3000	psi	20.7	MPa	
Tensile Elongation					ASTM D638
Yield	7.0	%	7.0	%	
Break	700	%	700	%	
Flexural Modulus - 2% Secant	204000	psi	1410	MPa	ASTM D790B
Hardness	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Durometer Hardness (Shore D)	60		60		ASTM D2240
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Deflection Temperature Under Load					ASTM D648
66 psi (0.45 MPa), Unannealed	175	°F	79.4	°C	
Vicat Softening Temperature	268	°F	131	°C	ASTM D1525
Melting Temperature (DSC)	275	°F	135	°C	Dow Method
Peak Crystallization Temperature (DSC)	244	°F	118	°C	Dow Method

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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.

[1] Base density is estimated using the assumption that every 1000 ppm of antiblock in the finished product raises the density of the polymer by 0.0006 g/cm³. Base density is the estimated density of the polymer if it did not contain any antiblock.

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