

EVERCAP™ DMDA-1260 NT 7

High Density Polyethylene Resin

The Dow Chemical Company

Message:

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.

General Information			
Agency Ratings		FDA 21 CFR 177.1520(c) 3.2a	
		Europe No 10/2011	
Forms		Particle	
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.965	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.7	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693
50°C, 10% Igepal, F50	28.0	hr	ASTM D1693
50°C, 100% Igepal, F50	35.0	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	29.6	MPa	ASTM D638
Fracture	20.7	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	7.0	%	ASTM D638
Fracture	700	%	ASTM D638
Flexural Modulus - 2% Secant	1410	MPa	ASTM D790B

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	79.4	°C	ASTM D648
Vicat Softening Temperature	131	°C	ASTM D1525
Melting Temperature (DSC)	135	°C	Internal method
Peak Crystallization Temperature (DSC)	118	°C	Internal method
Additional Information			

Plaque molded and tested in accordance with ASTM D 4976.

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