CONTINUUM™ DMDA-1260 NT 7

High Density Polyethylene Resin

The Dow Chemical Company

Message:

CONTINUUM™ DMDA-1260 NT 7 High Density Polyethylene Resin (HDPE) is intended for use in compression and injection molded beverage closures designed primarily for applications that undergo hot fill or aseptic sterilization processes. CONTINUUM™ DMDA-1260 offers improved performance for injection molded fitments designed for fitted pouches where its balance of properties are desired. CONTINUUM™ DMDA-1260 delivers a combination of improved properties such as improved stiffness, higher heat deflection temperature, improved ESCR, and easy processing versus alternative HDPE systems typically used for hot fill and aseptic sterilization processes. The end results are longer term closure performance, easy opening closures without the use of slip agent and consistent processing.
Main Characteristics:
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Excellent Stiffness, ESCR, and Impact Strength
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Excellent Sensory Properties
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Excellent Processing Characteristics
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High Heat Deflection Temperature
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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	0.963	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	22.0	hr	ASTM D1693
50°C, 100% Igepal, F50	28.0	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.

Recommended distributors for this material

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WECHAT