CONTINUUM™ DMDE-6620 NT 7 BIMODAL

Bimodal Polyethylene Resin

The Dow Chemical Company

Message:

DMDE-6620 NT 7 Bimodal High Density Polyethylene Resin is produced by UNIPOL[™] II process technology. This resin is a high stiffness resin with superior top-load performance in conjunction with excellent environmental stress crack resistance and excellent gas barrier properties. DMDE-6620 NT 7 is specifically designed for use in multiple types of blow molding processes, producing containers up to 20 gallons in size, which require superior top-load combined with excellent environmental stress crack resistance and gas barrier properties. This product offers excellent processability with low plate out properties. This product is especially well suited for containers used to package household industrial chemicals (e.g. detergents, and fabric softeners), toiletries and cosmetics (e.g. shampoos, creams, lotions, etc.), health, pharmaceutical, and food products. High stiffness for superior top-load performance

Excellent environmental stress crack resistance Excellent gas barrier properties High impact strength Good extrusion characteristics Complies with: U.S. FDA 21 CFR 177.1520 (c) 3.1a EU, No 10/2011 Consult the regulations for complete details.

General Information	
Additive	Processing aid
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a
	Europe No 10/2011

Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.960	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.28	g/10 min	ASTM D1238
190°C/21.6 kg	27	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693
50°C, 10% Igepal, F50	220	hr	ASTM D1693
50°C, 100% Igepal, F50	> 1100	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	59		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	28.0	MPa	ASTM D638
Fracture	18.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	8.0	%	ASTM D638
Fracture	670	%	ASTM D638
Flexural Modulus - 2% Secant	1170	MPa	ASTM D790B
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45					
MPa, Unannealed)	82.0	°C	ASTM D648		
Brittleness Temperature	-60.0	°C	ASTM D746		
Vicat Softening Temperature	131	°C	ASTM D1525		
Melting Temperature (DSC)	133	°C	Internal method		
Peak Crystallization Temperature (DSC)	121	°C	Internal method		
Additional Information					

根据 ASTM D 4976 进行模塑和测试.

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