UNIVAL™ DMDB-6200 NT 7

High Density Polyethylene Resin

The Dow Chemical Company

Message:

Unival™ DMDB-6200 NT 7 High Density Polyethylene (HDPE) Resin is a multipurpose polymer designed for high speed production of blow molded containers used to package household industrial chemicals (e.g., detergents, bleach, fabric softeners), toiletries and cosmetics (e.g. shampoos, creams, lotions, etc.), health and medicinal aids, and food products. In addition, it can be blow molded into other thin walled parts and houseware items, and also can be extruded into profiles.
Main Characteristics
Excellent stress crack resistance and rigidity
High impact strength
Moderate swell
High melt strength
Complies with:
U.S. FDA 21 CFR 177.1520(c) 3.2a
U.S. FDA-DMF
Canadian HPFB No Objection (with Limitations)
EU, No 10/2011
Consult the regulations for complete details.

General Information			
Agency Ratings	DMF not rated FDA 21 CFR 177.1520(c) 3.2a HPFB (Canada) No Objection Europe No 10/2011		
Forms	Particle		
Processing Method	Blow molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.953	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.38	g/10 min	ASTM D1238
190°C/21.6 kg	33	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	80.0	hr	ASTM D1693B
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	61		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield	26.9	MPa	ASTM D638
Fracture	31.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	7.0	%	ASTM D638
Fracture	1000	%	ASTM D638
Flexural Modulus - 2% Secant	1000	MPa	ASTM D790B

Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength [1]	168	kJ/m²	ASTM D1822
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	72.8	°C	ASTM D648
Brittleness Temperature	< -76.1	°C	Internal method
Vicat Softening Temperature	129	°C	ASTM D1525
Melting Temperature (DSC)	131	°C	Internal method
Peak Crystallization Temperature (DSC)	118	°C	Internal method
Additional Information			
根据 ASTM D 4976 进行基板模制和测试.			
NOTE			
1.	Type s		

Recommended distributors for this material

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