UNIVAL™ DMDA-6320 NT 7

The Dow Chemical Company - High Density Polyethylene Resin

Tuesday, November 5, 2019

General Information

Product Description

UNIVAL™ DMDA-6320 NT 7 High Density Polyethylene (HDPE) Resin is a multipurpose polymer designed for the 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 can be extruded into profiles.

- Excellent stress-crack resistance and rigidity
- High impact strength
- Low swell
- Good melt strength
- Contains antistat

Complies with:

- Canadian HPFB No Objection (with limitations)
- EU, No 10/2011
- U.S. FDA 21 CFR 177.1520 (c) 3.2a
- U.S. FDA -DMF

Consult the regulations for complete details.

General			
Material Status	• Commercial: Active		
Availability	• Latin America	• North America	
Additive	• Antiblock: No	• Processing Aid: No	• Slip: No
Agency Ratings	• DMF Unspecified Rating • EU No 10/2011	• FDA 21 CFR 177.1520(c) 3.2a • HPFB (Canada) No Objection [1]	
Forms	• Pellets		
Processing Method	• Blow Molding		

ASTM & ISO Properties [2]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.955		ASTM D792
Melt Mass-Flow Rate			ASTM D1238
190°C/2.16 kg	0.46	g/10 min	
190°C/21.6 kg	39	g/10 min	
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693
122°F, 100% Igepal, F50	40.0	hr	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	3700	psi	ASTM D638
Tensile Strength (Break)	4900	psi	ASTM D638
Tensile Elongation (Yield)	8.0	%	ASTM D638
Tensile Elongation (Break)	1000	%	ASTM D638
Flexural Modulus - 2% Secant	146000	psi	ASTM D790B
Impact	**Nominal Value**	**Unit**	**Test Method**
Tensile Impact Strength [3]	80.0	ft·lb/in²	ASTM D1822

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Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	64		ASTM D2240
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	158	°F	ASTM D648
Brittleness Temperature	< -105	°F	ASTM D746
Vicat Softening Temperature	262	°F	ASTM D1525
Melting Temperature (DSC)	268	°F	Internal Method
Peak Crystallization Temperature (DSC)	244	°F	Internal Method

Additional Information

Plaque molded and tested in accordance with ASTM D4976.

Notes

[1] With limitations

[2] Typical properties: these are not to be construed as specifications.

[3] Type S