



UNIVAL™ DMDG-6200 NT 7

The Dow Chemical Company - High Density Polyethylene Resin

Tuesday, November 5, 2019

General Information

Product Description

UNIVAL™ DMDG-6200 NT 7 is a multipurpose polymer designed for high speed production of blow molded containers used to package household industrial chemicals, toiletries and cosmetics, health and medicinal aids, and food products. The product is specifically designed to provide excellent processing on all blow molding equipment including continuous extrusion machinery.

- Excellent processability
- High melt strength
- Excellent balance of top load and ESCR
- 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

Material Status	• Commercial: Active		
Availability	• Europe	• 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 Properties²

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.955		ASTM D792
Melt Mass-Flow Rate			ASTM D1238
190°C/2.16 kg	0.38	g/10 min	
190°C/21.6 kg	41	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)	3600	psi	ASTM D638
Tensile Strength (Break)	3400	psi	ASTM D638
Tensile Elongation (Yield)	4.0	%	ASTM D638
Tensile Elongation (Break)	570	%	ASTM D638
Flexural Modulus			ASTM D790B
2% Secant	118000	psi	
Tangent	190000	psi	
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength ³	80.0	ft·lb/in ²	ASTM D1822
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	59		ASTM D2240

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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	154	°F	ASTM D648
Brittleness Temperature	< -105	°F	ASTM D746
Vicat Softening Temperature	264	°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 D 4976.

Notes

¹ With limitations

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

³ Type S