

UNIVAL™ DMDG-6240 NT 7

The Dow Chemical Company - High Density Polyethylene Resin

Tuesday, November 5, 2019

General Information

Product Description

UNIVAL™ DMDG-6240 NT 7 is a multipurpose polymer designed for high speed production of blow molded containers used to package household industrial chemicals, such as laundry detergent, health and medicinal aids as well as agricultural and food products. The product is specifically designed to provide excellent processing in all extrusion blow molding equipment.

Main Characteristics:

- · Excellent processability
- · High melt strength
- Excellent ESCR

Complies with:

- U.S. FDA 21 CFR 177.1520 (c) 3.2a.
- · Canadian HPFB No Objection

Consult the regulations for complete details.

General		
Material Status	Commercial: Active	
Availability	Latin America N	lorth America
Additive	Antiblock: No F	Processing Aid: No • Slip: No
Agency Ratings	• FDA 21 CFR 177.1520(c) 3.2a • F	IPFB (Canada) No Objection
Forms	Pellets	
Processing Method	Blow Molding	

ASTM & ISO Properties 1				
Physical	Nominal Value	Unit	Test Method	
Density / Specific Gravity	0.948		ASTM D792	
Melt Mass-Flow Rate			ASTM D1238	
190°C/2.16 kg	0.40	g/10 min		
190°C/21.6 kg	43	g/10 min		
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693	
122°F, 100% Igepal, F50	400	hr		
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength (Yield)	3450	psi	ASTM D638	
Tensile Strength (Break)	2400	psi	ASTM D638	
Tensile Elongation (Yield)	11	%	ASTM D638	
Tensile Elongation (Break)	770	%	ASTM D638	
Flexural Modulus			ASTM D790B	
1% Secant	148000	psi		
2% Secant	118000	psi		
Tangent	167000	psi		
Impact	Nominal Value	Unit	Test Method	
Tensile Impact Strength ²	72.0	ft·lb/in²	ASTM D1822	
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness (Shore D)	62		ASTM D2240	



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Thermal Thermal	Nominal Value		Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	145		ASTM D648
Brittleness Temperature	< -105	°F	ASTM D746
Vicat Softening Temperature	250	°F	ASTM D1525
Melting Temperature (DSC)	259	°F	Internal Method
Peak Crystallization Temperature (DSC)	226	°F	Internal Method

Plaque molded and tested in accordance with ASTM D 4976.

Notes

¹ Typical properties: these are not to be construed as specifications.



² Type S