# UNIVAL<sup>™</sup> DMDD-6200 NT 7

## High Density Polyethylene Resin

### The Dow Chemical Company

#### Message:

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 EU, No 10/2011 CANADIAN HPFB NO OBJECTION (WITH LIMITATIONS) Consult the regulations for complete details.

UNIVAL<sup>™</sup> DMDD-6200 NT 7 High Density Polyethylene (HDPE) Resin is a multi-purpose polymer designed for high speed production of blow molded containers used to package food products, household industrial chemicals (e.g., detergents, bleach, fabric softeners), toiletries and cosmetics (e.g., shampoos, creams, lotions, etc.), health and medicinal aids. In addition, this product can be blow molded into other thin walled parts and houseware items, and also can be extruded into profiles.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
	HPFB (Canada) No Objection 2		
	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	0.25	g/10 min	ASTM D1238
190°C/21.6 kg	23	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
(50°C, 100% Igepal, F50)	50.0	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	26.2	MPa	ASTM D638
Fracture	25.5	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	6.0	%	ASTM D638
Fracture	900	%	ASTM D638
Flexural Modulus - 2% Secant	1020	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength <sup>1</sup>	210	kJ/m²	ASTM D1822

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45			
MPa, Unannealed)	70.0	°C	ASTM D648
Brittleness Temperature	< -76.1	°C	ASTM D746
Vicat Softening Temperature	129	°C	ASTM D1525
Melting Temperature (DSC)	132	°C	Internal method
Peak Crystallization Temperature (DSC)	119	°C	Internal method
Additional Information			
根据 ASTM D3976 进行基板模制和测试.			
NOTE			
1.	Туре ѕ		

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