

UNIVAL™ DMDF-6230 NT

High Density Polyethylene Resin

The Dow Chemical Company

Message:

Outstanding environmental stress crack resistance
High impact strength
Good extrusion characteristics
Formulated with a non-food grade antistatic agent
Complies with:
U.S. FDA 21 CFR 175.105
Consult the regulations for complete details.

UNIVAL™ DMDF-6230 NT High Density Polyethylene (HDPE) Resin is specifically designed for use in either intermittent or continuous blow molding equipment to produce containers up to 20 gallons in size -applications that require the combination of outstanding environmental stress crack resistance (ESCR) and, high impact strength. UNIVAL DMDF- 6230 NT HDPE resin is also considered a multipurpose blow molding resin designed for the high speed production of blow molded containers used for packaging household industrial chemicals (e.g., detergents, bleach, fabric softeners), toiletries and cosmetics (e.g., shampoos, creams, lotions, etc.), health and medicinal aids. In addition, it can be blow molded into other thin walled parts and houseware items, and also can be extruded into profiles or sheets.

General Information			
Agency Ratings	FDA 21 CFR 175.105		
	HPFB (Canada) No Objection 2		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.949	g/cm ³	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	25	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	180	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	57		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	23.4	MPa	ASTM D638
Fracture	31.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	8.0	%	ASTM D638
Fracture	900	%	ASTM D638
Flexural Modulus - 2% Secant	910	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength ¹	210	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	62.0	°C	ASTM D648
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	127	°C	ASTM D1525
Melting Temperature (DSC)	130	°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

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