

UNIVAL™ DMDA-6147 NT 7

High Density Polyethylene Resin
The Dow Chemical Company

Message:

Outstanding environmental stress crack resistance
Excellent parison melt strength/low sag
Good extrudability/processability
Good rigidity
Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a
Complies with CANADIAN HPFB NO OBJECTION (WITH LIMITATIONS)
Consult the regulations for complete details.

UNIVAL™ DMDA-6147 NT 7 High Density Polyethylene (HDPE) Resin is a polymer with broad molecular weight distribution and high molecular weight. This product provides an excellent combination of extrudability and parison stability, which contribute to uniform wall thickness in large parts. UNIVAL DMDA-6147 NT 7 HDPE resin is ideal for blow molding containers such as the 5-55 gallon (19-212 liter) closed head shipping containers and other similar parts. The broad distribution also provides outstanding environmental stress crack resistance (ESCR) at a good rigidity. Because of these characteristics, a wide variety of products, such as industrial chemicals, latex paints, printing inks, foodstuffs, adhesives, and other chemical specialties may be packaged in containers produced from this resin. The smooth surface of molded parts is readily treated and printed for high quality applications.

General Information			
UL YellowCard	E337483-100706577		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
	HPFB (Canada) No Objection 3		
Forms	Particle		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.948	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	10	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	> 1500	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	22.8	MPa	ASTM D638
Fracture	36.5	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	6.0	%	ASTM D638
Fracture	900	%	ASTM D638
Flexural Modulus - 2% Secant	855	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength ¹	462	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	66.0	°C	ASTM D648
Brittleness Temperature	< -76.1	°C	ASTM D746
Vicat Softening Temperature	127	°C	ASTM D1525
Melting Temperature (DSC)	130	°C	Internal method
Peak Crystallization Temperature (DSC)	114	°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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

