

Dow UNIVAL™ DMDC-6145 NT 7 High Density Polyethylene Resin (HDPE)

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

Excellent parison melt strength / low sag Good extrudability / process-ability Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a UNIVAL™ DMDC-6145 NT 7 provides good parison stability, which contributes to uniform wall thickness in large parts, making it ideal for blow molding of containers ranging from, 5 - 15 gallon tight-head pails to 30 gallon drums. The appearance of finished blow molded parts made from this resin is excellent. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-UNIVAL-DMDC-6145-NT-7-High-Density-Polyethylene-Resin-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in ³	ASTM D792
ESCR 100% Igepal®	>= 1500 hour @Temperature 50.0 °C	>= 1500 hour @Temperature 122 °F	F₅₀; Molded and tested in accordance with ASTM D4976; ASTM D1693
High Load Melt Index	14 g/10 min @Load 21.6 kg, Temperature 190 °C	14 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	Molded and tested in accordance with ASTM D4976; ASTM D2240
Tensile Strength at Break	34.5 MPa	5000 psi	Molded and tested in accordance with ASTM D4976; ASTM D638
Tensile Strength, Yield	25.5 MPa	3700 psi	Molded and tested in accordance with ASTM D4976; ASTM D638
Elongation at Break	1000 %	1000 %	Molded and tested in accordance with ASTM D4976; ASTM D638
Elongation at Yield	7.0 %	7.0 %	Molded and tested in accordance with ASTM D4976; ASTM D638
Flexural Modulus	0.903 GPa	131 ksi	2% Secant; Molded and tested in accordance with ASTM D4976; ASTM D790 B
Tensile Impact Strength	252 kJ/m ²	120 ft-lb/in ²	Molded and tested in accordance with ASTM D4976; ASTM D1822, Type S

Thermal Properties	Metric	English	Comments
Melting Point	131 °C	268 °F	Dow Method (DSC)
Crystallization Temperature	117 °C	243 °F	Dow Method (DSC)

Deflection Temperature at 0.46 MPa Thermal Properties (0.1% Strain)	65.0 °C Metric	149 °F English	Molded and tested in accordance with ASTM D4976; ASTM D648 Comments
Vicat Softening Point	129 °C	264 °F	ASTM D1525
Brittleness Temperature	<= -76.1 °C	<= -105 °F	Molded and tested in accordance with ASTM D4976; ASTM D746

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China