

Total 49080 UV HDPE blow molding

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Blow Molding Grade

Material Notes:

FINATHENE® 49080 UV is produced by the slurry loop low pressure polymerization process. FINATHENE® 49080 UV is a U.V.-stabilized, high molecular weight pelletized resin, intended for the production of containers with a high impact strength, an excellent stress-crack resistance and a low creep under load. FINATHENE® 49080 UV is specially recommended for the blow-molding of Heating Oil Tank and large containers (IBC) dedicated to the transportation of dangerous goods (UN-regulations). Applications: shipping containers, industrial chemical tanks, intermediate bulk containers, agricultural chemical tanks. Blow Molding Stock Temperature 370 – 440 °F Information provided provided by Total Petrochemicals. Total Petrochemicals acquired former Fina and Atofina plastics product lines.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-49080-UV-HDPE-blow-molding.php

Physical Properties	Metric	English	Comments
Density	0.949 g/cc	0.0343 lb/in ³	ISO 1183
Environmental Stress Crack Resistance	>= 250 hour	>= 250 hour	100% ant.; ASTM D1693-70
High Load Melt Index	8.0 g/10 min @Load 21.6 kg, Temperature 190 °C	8.0 g/10 min @Load 47.6 lb, Temperature 374 °F	ISO 1133 cond. 7

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	37.0 MPa	5370 psi	ISO 527
Tensile Strength, Yield	24.0 MPa	3480 psi	ISO 527
Elongation at Break	>= 700 %	>= 700 %	ISO 527
Elongation at Yield	9.0 %	9.0 %	ISO 527
Flexural Modulus	1.20 GPa	174 ksi	ISO 178
Izod Impact, Notched	6.41 J/cm @Thickness 3.17 mm	12.0 ft-lb/in @Thickness 0.125 in	ASTM D256
Tensile Impact Strength	105 kJ/m ²	50.0 ft-lb/in ²	Notched, -30°C; ISO 8256
	230 kJ/m ²	109 ft-lb/in ²	Notched, 23°C; ISO 8256

Thermal Properties	Metric	English	Comments
Vicat Softening Point	126 °C	259 °F	ISO 306

Descriptive Properties	Value	Comments
Food Approval	This material complies with the main regulations concerning non-toxicity of plastics materials in contact with food stuffs.	

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