

Total 50100.2 HDPE blow molding, sheet, thermoforming resin

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

Material Notes:

Applications: Agricultural chemical tanks, portable fuel containers, industrial parts, pallets, large foam parts, food packaging, sheet extrusion, thermoforming, truck bed liners, dunnage containers, large part formed articles. Blow Molding Stock Temperature 370 – 450 °F
Extrusion melt temperature 380 - 480°F Thermoforming surface temperature 310 - 360 °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-501002-HDPE-blow-molding-sheet-thermoforming-resin.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	ASTM D 792
Environmental Stress Crack Resistance	>= 600 hour	>= 600 hour	ASTM D1693 cond. B 100% Igepal
High Load Melt Index	9.0 g/10 min @Load 21.6 kg	9.0 g/10 min @Load 47.6 lb	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	>= 26.2 MPa	>= 3800 psi	ASTM D 638 type IV
Elongation at Break	600 %	600 %	ASTM D 638, type IV
Flexural Modulus	1.210 GPa	175.5 ksi	ASTM D 790
Izod Impact, Notched	5.34 J/cm @Thickness 3.17 mm	10.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	180 µm/m-°C @Temperature 20.0 °C	100 µin/in-°F @Temperature 68.0 °F	ASTM D 696
Melting Point	127 °C	260 °F	ASTM D3417

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