

Ineos G60-25-144 HDPE

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

Material Notes:

Ineos G60-25-144 is a high density polyethylene homopolymer typically used in the production of sheet extrusion and blow molded containers. This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-G60-25-144-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.962 g/cc	0.0348 lb/in ³	ASTM D4883
Melt Flow	0.25 g/10 min @Load 2.16 kg, Temperature 190 °C	0.25 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	ASTM D2240
Tensile Strength, Yield	31.0 MPa	4500 psi	2 in/min (50 mm/min); ASTM D-638
Elongation at Break	>= 800 %	>= 800 %	2 in/min (50 mm/min); ASTM D-638
Modulus of Elasticity	1.344 GPa	194.9 ksi	ASTM D638
Flexural Modulus	0.861 GPa	125 ksi	ASTM D747
	1.55 GPa	225 ksi	Tangent-Method 1; ASTM D790
Izod Impact, Notched	2.10 J/cm	3.93 ft-lb/in	ASTM D256
Tensile Impact Strength	258 kJ/m ²	123 ft-lb/in ²	Type L, ASTM D1822

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	80.0 °C	176 °F	ASTM D648
Vicat Softening Point	131 °C	268 °F	ASTM D1525
Brittleness Temperature	<= -75.0 °C	<= -103 °F	ASTM D746

Descriptive Properties	Value	Comments
Process	Blow Molding	
	Sheet Extrusion	

Region Descriptive Properties	US & Canada Value	Bamberger Polymers Distribution Comments
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