

Ineos T50-3600 HDPE

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

Material Notes:

Ineos T50-3600 is a high density polyethylene copolymer of narrow molecular weight distribution used primarily for high speed injection molding of thin-walled articles. It is characterized by a high melt index which allows for easy processing of parts which require a glossy surface finish and reasonably good impact strength and rigidity. 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-T50-3600-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.953 g/cc	0.0344 lb/in ³	ASTM D4883
Melt Flow	36.5 g/10 min @Load 2.16 kg, Temperature 190 °C	36.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength, Yield	26.9 MPa	3900 psi	2 in/min (50 mm/min); ASTM D-638
Flexural Modulus	1.276 GPa	185.1 ksi	Tangent-Method 1; ASTM D790
Izod Impact, Notched	0.230 J/cm	0.431 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	74.0 °C	165 °F	ASTM D648
Vicat Softening Point	121 °C	250 °F	ASTM D1525
Brittleness Temperature	<= -75.0 °C	<= -103 °F	ASTM D746

Descriptive Properties	Value	Comments
Process	Injection Molding	

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