

Ineos T50-400 HDPE

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

Material Notes:

T50-400 is a high density polyethylene copolymer having a narrow molecular weight distribution. It is intended for injection molding applications where a good balance of processability and end-use properties are required. Typical applications include pails and material handling devices. 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-T50-400-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.953 g/cc	0.0344 lb/in ³	ASTM D4883
Environmental Stress Crack Resistance	8.0 hour	8.0 hour	Condition B, 10%, F50; ASTM D1693
Melt Flow	4.0 g/10 min @Load 2.16 kg, Temperature 190 Â°C	4.0 g/10 min @Load 4.76 lb, Temperature 374 Â°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; ASTM D638
Elongation at Break	800 %	800 %	2 in/min; ASTM D638
Flexural Modulus	1.28 GPa	185 ksi	Tangent-Method; ASTM D790
Izod Impact, Notched	0.854 J/cm	1.60 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	81.1 Â°C	178 Â°F	ASTM D648
Vicat Softening Point	128 Â°C	262 Â°F	ASTM D1525
Brittleness Temperature	<= -75.0 Â°C	<= -103 Â°F	ASTM D746

Descriptive Properties	Value	Comments
Process	Injection Molding	

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