

## Ineos T50-500 HDPE

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

### Material Notes:

Ineos T50-500 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. 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-T50-500-HDPE.php](http://www.lookpolymers.com/polymer_ineos-T50-500-HDPE.php)

Physical Properties	Metric	English	Comments
Density	0.953 g/cc	0.0344 lb/in <sup>3</sup>	ASTM D4883
Environmental Stress Crack Resistance	6.5 hour	6.5 hour	Condition B, 10%, F50; ASTM D 1693
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Melt Flow	6.0 g/10 min	6.0 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

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
Elongation at Break	800 %	800 %	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	0.640 J/cm	1.20 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Vicat Softening Point	128 °C	262 °F	ASTM D1525
Brittleness Temperature	<= -75.0 °C	<= -103 °F	ASTM D746

Descriptive Properties	Value	Comments
Process	Injection Molding	
Region	US & Canada	Bamberger Polymers Distribution

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