

## Ineos T50-500-196 Polyethylene Copolymer

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded

**Material Notes:**

This 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. Information provided by Ineos Olefins & Polymers USA

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ineos-T50-500-196-Polyethylene-Copolymer.php](http://www.lookpolymers.com/polymer_ineos-T50-500-196-Polyethylene-Copolymer.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 D1693
Melt Flow	6.0 g/10 min @Load 2.16 kg, Temperature 190 °C	6.0 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; ASTM D638
Elongation at Break	800 %	800 %	2 in/min; ASTM D638
Izod Impact, Notched	0.641 J/cm	1.20 ft-lb/in	ASTM D256
Tangent Modulus	1280 MPa	185000 psi	ASTM D790

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

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