

T60-500-119 Polyethylene Homopolymer

T60-500-119 is a high density polyethylene homopolymer designed specifically for injection molding. This narrow molecular weight distribution resin is a product of INEOS USA, LLC's innovative technology. Parts fabricated from this material exhibit a glossy surface finish and good impact strength and rigidity. This material meets the Food and Drug Administration requirements of 21 CFR 177.1520.

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Resin			
Density	—	0.9608 g/cc	D4883
Melt Index 190 C/2.16 kg	—	6.5 g/10 min	D1238
Compression Molded Sample			
Tensile Strength (2 in/min)			D638
@ Yield	4,660 psi	32.2 MPa	
@ Break	3,163 psi	21.8 MPa	
Elongation (2 in/min)			D638
@ Yield	8.0 %	8.0 %	
@ Break	1276 %	1276 %	
Flexural Modulus			D790A
Tangent Method	247,000 psi	1,705 MPa	
Notched Izod Impact Strength	0.80 ft-lbf/in	4.21 kJ/m ²	D256
Hardness			D2240
Shore D	65	65	
Vicat Softening Point	264 F	129 C	D1525
Brittleness Temperature	<-94 F	<-70 C	D746
Heat Deflection Temperature			D648
@ 66 psi (455 kPa)	181 F	83 C	
Environmental Stress Crack Resistance			D1693
Condition B, 100% Igepal, F50 (hrs.)	4	4	

¹ Typical properties will vary and are not to be used for specification purposes.