

# T60-1200-119 Polyethylene Homopolymer

T60-1200-119 is a narrow molecular weight distribution high density polyethylene homopolymer intended for general purpose injection molding applications requiring good rigidity and a glossy surface finish. This material meets the Food and Drug Administration requirements of 21 CFR 177.1520.

## Typical Properties<sup>1</sup>

	Values		ASTM
	English Units	SI Unitsethod	
<b>Resin</b>			
Density	—	0.960 g/cc	D4883
Melt Index 190 C/ 2.16 kg	—	12 g/10 min	D1238
<b>Compression Molded Samples</b>			
Tensile Strength (2 in/min)			D638
@ Yield	4,200 psi	28.9 MPa	
@ Break	1,700 psi	11.7 MPa	
Elongation (2 in/min)			D638
@ Yield	8.0 %	8.0 %	
@ Break	> 300 %	> 300 %	
Flexural Modulus			D790A
Tangent Method	240,000 psi	1,650 MPa	
Notched Izod Impact Strength	0.7 ft-lbf/in	3.5 kJ/m <sup>2</sup>	D256
Hardness			D2240
Shore D	70	70	
Vicat Softening Point	253 F	123 C	D1525
Brittleness Temperature	<-94 F	<-70 C	D746
Heat Deflection Temperature			D648
@ 66 psi (455kPa)	174 F	79 C	
Environmental Stress Crack Resistance			D1693
Condition B; 100% Igepal F50 (hrs.)	3	3	

<sup>1</sup> Typical properties will vary and are not to be used for specification purposes.