

T50-2000-119 Polyethylene Copolymer

T50-2000-119 is a high density, narrow molecular weight distribution polyethylene copolymer intended for general purpose injection molding and extrusion applications requiring a glossy surface finish and reasonably good impact strength and rigidity. It is characterized by a high melt index which allows easy processing of medium to thin-walled articles. 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	—	0.9530 g/cc	D4883
Melt Index 190 C/2.16 kg	—	20 g/10 min	D1238
Compression Molded Sample			
Tensile Strength (2 in/min)			D638
@ Yield	4,000 psi	27.6 MPa	
@ Break	3,880 psi	26.7 MPa	
Elongation (2 in/min)			D638
@ Yield	9.1 %	9.1 %	
@ Break	232 %	232 %	
Flexural Modulus			D790A
Tangent Method	178,900 psi	1,227 MPa	
Notched Izod Impact Strength	0.53 ft-lbf/in	2.77 kJ/m ²	D256
Hardness			D2240
(Shore D)	66	66	
Vicat Softening Point	257 F	125 C	D1525
Brittleness Temperature	<-94 F	<-70 C	D746
Heat Deflection Temperature			D648
@ 66 psi (455 kPa)	162 F	72 C	
Environmental Stress Crack Resistance			D1693
Condition B, 100% Igepal, F50 (hrs.)	1.8	1.8	

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