

T50-800-01 Polyethylene Copolymer

T50-800-01 is a high density polyethylene copolymer having a narrow molecular weight distribution intended for general purpose 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.

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Resin			
Density	—	0.953 g/cc	D4883
Melt Index ²	—	8 g/10 min	D1238
Compression Molded Sample			
Tensile Strength (2 in/min)			D638
@ Yield	4,000 psi	28 MPa	
@ Break	3,250 psi	22 MPa	
Elongation (2 in/min)			D638
@ Yield	10 %	10 %	
@ Break	> 1,200 %	> 1,200 %	
Flexural Modulus			D790A
Tangent Method	172,000 psi	1,186 MPa	
Notched Izod Impact Strength			D256
@ 23 C	0.7 ft-lbf/in	3.7 kJ/m ²	
Hardness			D2240
Shore D	62	62	
Vicat Softening Point	257 F	125 C	D1525
Brittleness Temperature	<-94 F	<-70 C	D746
Deflection Temperature			D648
@ 66 psi	169 F	76 C	
Environmental Stress Crack Resistance			D1693
Condition B, 100% Igepal, F50 (hrs.)	3	3	

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