

3950 Polypropylene Impact Copolymer

3950 is a low gloss, high impact nucleated polypropylene copolymer. It is best suited for automotive interior trim applications and other injection molding applications where high melt fluidity is important.

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Resin			
Density	—	0.903 g/cc	D792
Melt Flow Rate, 230°C/2.16 kg	—	34.00 g/10 min	D1238
Injection Molded Sample			
Tensile Strength (2 in/min)			D638
@ Yield	3,900 psi	26.9 MPa	
@ Break	2,785 psi	19.2 MPa	
Elongation (2 in/min)			D638
@ Yield	5.23%	5.23%	
@ Break	132%	132%	
Flexural Modulus			D790A
1% Secant	173,400 psi	1,195 MPa	
Notched Izod Impact Strength			D256
@ 23 C	2.8 ft-lbf/in	14.7 kJ/m ²	
@ -20 C	1.2 ft-lbf/in	6.2 kJ/m ²	
Hardness			
Rockwell R	89	89	D785
Vicat Softening Point	304 F	151 C	D1525
Heat Deflection Temperature			
@ 66 psi (455 kPa)	223 F	106 C	D648
@ 264 psi (1,820 kPa)	135 F	57 C	
Gloss Units, 60° angle		69.2	D2457
Instrumented Impact			
@ 23 C	Ductile	Ductile	D3763
@ -20 C	Ductile	Ductile	
Brittleness Temperature	-22 to -4 F	-30 to -20 C	D746
Shrinkage at 23°C, in/in	MD: 1.53%	TD: 1.63%	D955
UL Listing Designations			
Flammability, mm/min FMVSS 302		24.1	
UL Recognition			UL94
Flammability Classification, 1.50 mm, no color, 3.00 mm, NC		HB	
Hot-Wire Ignition Classification			UL746
1.50 mm, NC, 3.00 mm, NC		PLC3	

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