

T10G-03 Thermoplastic Olefin (TPO)

T10G-03 is a higher melt flow TPO designed for the roofing membrane market. Its blend of impact resistance and flexural modulus is designed to provide an excellent balance between processing and performance. Typical applications include roofing membrane, compounding, and applications that require flexibility and strength. T10G-03 meets FDA requirements of 21CFR 177.1520.

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Resin			
Density	—	0.884 g/cc	D792
Melt Flow Rate 230°C/2.16 kg	—	10 g/10 min	D1238
Injection Molded Sample			
Tensile Strength (2 in/min)			D638
@ Yield	1,565 psi	10.7 MPa	
@ Break	2,884 psi	19.7 MPa	
Elongation (2 in/min)			D638
@ Yield	23.0%	23.0%	
@ Break	1,186%	1,186%	
Flexural Modulus			D790A
1% Secant	43,000 psi	300 MPa	
Notched Izod Impact Strength			D256
@ 23 C	10.0 ft-lbf/in	52.3 kJ/m ²	
@ - 20 C	13.0 ft-lbf/in	68.2 kJ/m ²	
Hardness			D785
Shore D	53	53	
Deflection Temperature			D648
@ 66 psi (455 kPa)	122 F	50 C	

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

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