

# 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 Properties<sup>1</sup>

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

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