

# T00G-02 Thermoplastic Olefin (TPO) Datasheet

T00G-02 is a fractional 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, geomembranes, mats, and applications that require flexibility and strength. T00G-02 meets FDA requirements of 21 CFR 177.1520.

## Typical Properties<sup>1</sup>

	Values		ASTM Method
	English Units	SI Units	
<b>Resin</b>			
Density	—	0.875 g/cc	D792
Melt Flow Rate 230°C/2.16 kg	—	0.6 g/10 min	D1238
<b>Injection Molded Sample</b>			
<b>Tensile Strength (2 in/min)</b>			D638
@ Yield	914 psi	6.3 MPa	
@ Break	1,490 psi	10.2 MPa	
<b>Elongation (2 in/min)</b>			D638
@ Yield	193%	193%	
@ Break	814%	814%	
<b>Flexural Modulus</b>			D790A
1% Secant	16,400 psi	113 MPa	
<b>Notched Izod Impact Strength</b>			D256
@ 23 C	6.5 ft-lbf/in	33.9 kJ/m <sup>2</sup>	
@ - 20 C	11.3 ft-lbf/in	59.3 kJ/m <sup>2</sup>	
<b>Hardness</b>			D2240
Shore D	43.8	43.8	
<b>Deflection Temperature</b>			D648
@ 66 psi (455 kPa)	105 F	40.6 C	

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