

T00G-02

THERMOPLASTIC OLEFIN (TPO)

TECHNICAL DATASHEET

Product Description

T00G-02 is a fractional melt flow TPO designed for the roofing membrane market. It offers an excellent balance of processing performance with impact strength and high flexibility. Typical applications include roofing membrane, geomembranes, mats and other products that require flexibility and toughness. T00G-02 meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.¹

Typical Properties²

| Property | English Units | SI Units | ASTM Method |
|---|----------------------------|---------------|-------------|
| Resin Properties | | | |
| Density | | 0.875 g/cc | D792 |
| Melt Flow Rate (230°C/2.16 kg) | | 0.60 g/10 min | D1238 |
| Injection Molded Specimen Test | | | |
| Tensile Strength @ Yield | 900 psi | 6.2 MPa | D638 |
| Tensile Elongation @ Break | >700 % | >700 % | D638 |
| Flexural Modulus, 1% Secant Method | 16,400 psi | 113 MPa | D790A |
| Notched Izod Impact Strength | | | D256 |
| @ 23°C | 6.5 ft-lb _f /in | 350 J/m | |
| @ -20°C | 11 ft-lb _f /in | 590 J/m | |
| Hardness, Shore D | 44 | 44 | D2240 |
| Deflection Temperature @ 66 psi (455 kPa) | 105 °F | 41 °C | D648 |