

TPO Thermoplastic Olefin

TPO is a specialty engineered polyolefin alloy specifically designed to provide the optimum balance of stiffness, cold temperature impact and low thermal expansion. TPO is suitable for interior and exterior automotive and recreational applications and industrial parts and can be painted, colored and used with various polyolefin and paint film cap layers.

Properties	Test Method	Typical Value*
Specific Gravity	ISO 1183	1.10
Melt Flow [230°C/ 2.16kg]	ISO 1133	0.8 g/10 min
Shrink Rate [23°C, 2.16 kg]	ISO 294-4	0.65 - 0.85%
Tensile Strength at Yield [50 mm/min]	ISO 527	3,770 Psi
Flexural Modulus [Chord, 2mm/min]	ISO 178	325,000 Psi
HDT [unannealed]		
- at 66 Psi	ISO 75	240°F
- at 264 Psi	ISO 75	140°F
CLTE [-30°C to 80°C]	ISO 11359	2.6 E -5 in/in/°F
Hardness [Instantaneous]	ISO 868	65 Shore D

* This information reflects typical values and are not to be construed as specifications

Approvals

1. Please contact your Impact Plastics sales representative for material certifications.
2. SDS sheets available upon request to help customers satisfy their safety needs

Customization

- Monolayer extrusion, multi-layer coextrusion & cut sheet
- Natural or UV stabilized
- Custom color
- Custom surface finish

Certifications

1410M TPO is manufactured in a plant whose Quality Management System is certified as being in conformity with ISO 9001:2015 and FSSC 22000 V5.0 Food Packaging Material Manufacturing (Impact South only).



FSSC 22000



Certified to
ISO 9001:2015



* All tests were run under laboratory conditions, ASTM [where applicable] testing procedures. The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of Impact products must be guided by the users own methods for selection of proper formulation. Impact Plastics disclaims any responsibility for misuse or misapplication of its products. Impact Plastics makes no warranty of merchantability and there is no warranty that goods supplied shall be fit for any particular purpose. Impact's liability and customer's exclusive remedy for any claims arising out of sales of its products are expressly limited at customer option to replacement of non-conforming goods or payment not to exceed the purchase price plus transportation charges thereon in respect to any material for which damage is claimed.