



# POLIFIL® TPO-60D12 DATA SHEET

DOING THE NEEDFUL SINCE 1973

## Thermoplastic Polyolefin

**Polifil® TPO-60D12** is a stabilized injection molding grade of compounded TPO utilizing metallocene catalyst technology. This product is intended for applications requiring outstanding impact properties at both ambient and low temperatures. Typical applications include automotive bumper and fascia components, recreational vehicle cowls, and lawn and garden machinery guards. Use this information as a guide to aid you in selecting the proper resin for your application. TPG will custom compound and fine-tune our formulations to meet your application requirements.

<b>PHYSICAL</b>	<b>ASTM/ Method</b>	<b>Polifil® TPO-60D12</b>
Specific gravity	D 792	0.91
Melt flow 230/2.16 (g/10 min)	D 1238	Nominal 12
Water absorption, 24 hours (%)	D 570	nil
Mold shrinkage (%)	TPG	1.8
<b>MECHANICAL @ 73°F</b>		
Tensile strength @ yield (MPa)	D 638	19.1
Elongation @ break (%)	D 638	>500
Flexural modulus, 1% secant (MPa)	D 790	790
Izod impact, notched, 73°F (kJ/m <sup>2</sup> )	D 256	54
Izod impact, notched, 0°F (kJ/m <sup>2</sup> )	D 256	20
Gardner impact, 1/2" tup (J)	D 5420	40 ductile failure
Hardness, shore (D-scale)	D 955	60
<b>THERMAL</b>		
Deflection temperature, 66psi (°C)	D 648	74

The property values listed above have been obtained using laboratory controlled test methods. They are offered without guarantee since conditions under which the product is used are beyond our control. Mold shrinkage is intended as a guide only, as specific shrinkage is affected by part design, mold design and molding conditions. Therefore, The Plastics Group disclaims any liability for loss or damage incurred in connection with the use of this product.