



POLIFIL® TPOT-2024UV DATA SHEET

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Talc Reinforced Thermoplastic Polyolefin with UV Stabilization

Polifil® TPOT-2024UV is a UV 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 needing UV stabilization. The talc filler provides controlled shrinkage and reduced part warpage. Typical applications include automotive interior kick panels, 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.

PHYSICAL	ASTM/ Method	Polifil® TPOT-2024UV
Specific gravity	D 792	1.04
Melt flow 230/2.16 (g/10 min)	D 1238	Nominal 24
Water absorption, 24 hours (%)	D 570	nil
Mold shrinkage, 2.5mm wall (%)	TPG	0.9
MECHANICAL @ 73°F		
Tensile strength @ yield (MPa)	D 638	26
Tensile elongation @ yield (%)	D 638	6
Tensile elongation @ break (%)	D 638	100
Flexural modulus, tangent* (MPa)	D 790	2300
Flexural strength, max load* (MPa)	D 790	33.6
Izod impact, notched, 23°C (kJ/m2)	D 256	>22 partial break
Izod impact, notched, -30°C (kJ/m2)	D 256	5.0
Gardner impact, 1/2" tup, 23°C (J)	D 5420	>35 ductile
Gardner impact, 1/2" tup, -20°C (J)	D 5420	>15 ductile
Hardness, shore (D-scale)	D 955	67
THERMAL		
Deflection temperature, 1820kPa (°C)	D 648	62

*denotes non-standard crosshead speed of 2mm/min

The Plastics Group of America

