

Preliminary Technical Data Sheet

Technical Information: TXR High Recycled PET Compound (TXR® 50%rPET)

Overview: TXR® 50%rPET is a recycled PET compound designed for injection molding and extrusion applications. The material is suitable for manufacturing general purpose parts and components. The material offers a balanced combination of mechanical properties, providing high impact strength together with high stiffness (modulus).

Formulation: (50% r-PET from textile waste)

TXR® 50%rPET - when properly processed exhibits:

Properties	Unit	Standard	TXR® 50%rPET
MFI (260°C, 2.16Kg)	g/10min	ISO 1133	13.1
Density	gr/cm ³	ISO 1183	1.2
Tensile Modulus (1 mm/min)	MPa	ISO 527	1453
Yield Strength (50 mm/min)	MPa	ISO 527	24
Elongation @ yield (50 mm/min)	%	ISO 527	3
Stress @ Break (50 mm/min)	MPa	ISO 527	21
Elongation @ Break	%	ISO 527	107
Flexural Modulus (2 mm/min)	MPa	ISO 178	1260
Bending Strength (2mm/min)	MPa	ISO 178	34
Izod Impact Notch	J/m	ASTM D256	117C
Izod Impact Un-Notch	J/m	ASTM D256	1543 NB