

Polybutylene Terephthalate Compound (PBT)

Description	30% glass fiber reinforced PBT grade
Color	Natural
Norm compliance	Compliant with Regulation (EC) No 1907/2006 (REACH)
Certifications	UL product certified - File E187982
Processing technology	Injection moulding

Physical properties	Typical value	Units	Test Method
Water absorption (24 h/23°C)	0.04	%	ASTM D570
MFI Melt Flow Index 250°C/2.16kg	14	g/10min	ASTM D1238
Ash Content	30	%	INTERNAL
Density	1.52	g/cm ³	ASTM D792
Humidity absorption (23°C /50% RH)	0.25	%	ISO 62
Mold Shrinkage	0.35	%	INTERNAL
Mechanical properties	Typical value	Units	Test Method
Tensile strength at break	130	MPa	ASTM D638
Tensile elongation at break	2.5	%	ASTM D638
Tensile Modulus	9800	MPa	ASTM D638
Flexural Modulus	9000	MPa	ASTM D790
IZOD impact strength, notched (23 °C)	85	J/m	ASTM D256
Flexural Strength	210	MPa	ASTM D790
Thermal properties	Typical value	Units	Test Method
Vicat Softening Temperature B (50°C/h at 50 N)	215	°C	ASTM D1525
HDT Heat Deflection Temperature B (0,455 MPa)	220	°C	ASTM D648
HDT Heat Deflection Temperature A (1,82 MPa)	210	°C	ASTM D648
Coefficient of linear thermal expansion	2.5	°C-1	ASTM D696-3
Flammability	Typical value	Units	Test Method
Flame Rating (0,75 mm)	HB	Class	UL94