

Product Texts

30% glass fibre reinforced PBT with post consumer PET

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	20	cm ³ /10min	ISO 1133
Temperature	260	°C	-
Load	2.16	kg	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	10800	MPa	ISO 527
^[C] Stress at break	142	MPa	ISO 527
^[C] Strain at break	2.1	%	ISO 527
^[C] Charpy impact strength, +23°C	55	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	50	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	9	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	8	kJ/m ²	ISO 179/1eA

ASTM Data

Tensile Strength at Break	132	MPa	ASTM D 638
Flexural Modulus	10820	MPa	ASTM D 790
Flexural Strength	209	MPa	ASTM D 790
Izod Impact notched, 1/8 in	61.9	J/m	ASTM D 256

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Temp. of deflection under load, 1.80 MPa	205	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	225	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	204	°C	ISO 306
^[C] Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Yellow Card available	yes	-	-
^[C] Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
Yellow Card available	yes	-	-
^[C] Oxygen index	19	%	ISO 4589-1/-2

ASTM Data

DTUL @ 66 psi	222	°C	ASTM D 648
DTUL @ 264 psi	202	°C	ASTM D 648

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	>1E15	Ohm	IEC 62631-3-2
^[C] Comparative tracking index	300	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Density	1550	kg/m ³	ISO 1183
Density	1540	kg/m ³	ASTM D 792

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	2 - 4	h	-
Melt temperature	255 - 270	°C	-
Mold temperature	80 - 90	°C	-

Characteristics

Processing

Injection Molding

Certifications

Recycled Resin Content

Delivery form

Granules

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Additives

Release agent

Other text information

Injection molding

PREPROCESSING; Pretreatment

Predrying: 2-4 h / 120°C

PROCESSING ;Processing:

Melttemperature	255 - 270	°C
Mouldtemperature	80 - 90 (120)	°C