Pocan® KU 2-7111 000000

PBT-GF16 Envalior

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**30**	cm³/10min	ISO 1133
Temperature	**260**	°C	-
Load	**2.16**	kg	-
Molding shrinkage, parallel	**0.4**	%	ISO 294-4, 2577
Molding shrinkage, normal	**1.4**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**5500**	MPa	ISO 527
Stress at break	**85**	MPa	ISO 527
Strain at break	**4**	%	ISO 527
Flexural modulus, 23°C	**4800**	MPa	ISO 178
Flexural strength	**150**	MPa	ISO 178
Charpy impact strength, +23°C	**40**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**10**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**10**	kJ/m²	ISO 179/1eA
Izod impact strength, +23°C	**35**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C	**10**	kJ/m²	ISO 180/1A
Izod notched impact strength	**10**	kJ/m²	ISO 180/1A
Temperature	**-40**	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**225**	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**185**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**219**	°C	ISO 75-1/-2
Vicat softening temperature, B	**200**	°C	ISO 306
Coeff. of linear therm. expansion, parallel	**40**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**130**	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.6**	mm	-
Burning behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**0.8**	mm	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Volume resistivity	**>1E13**	Ohm*m	IEC 62631-3-1
Surface resistivity	**>1E15**	Ohm	IEC 62631-3-2
Electric strength	**36**	kV/mm	IEC 60243-1
Comparative tracking index	**275**	-	IEC 60112

Other properties	Value	Unit	Test Standard
Density	**1380**	kg/m³	ISO 1183
Bulk density	**700**	kg/m³	-

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	**260**	°C	ISO 294
Injection Molding, mold temperature	**80**	°C	ISO 294

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**4 - 8**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**250 - 270**	°C	-

Mold temperature	**80 - 100**	°C	-

Characteristics

Processing
Injection Molding

Chemical Resistance
Hydrolytically Stable