Durepol® A3 G10 PRTA011 BT313

PBT-GF10 Grupo Petropol Polímeros

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.9**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Strength	**90**	MPa	ISO 527
Strain at break	**4.8**	%	ISO 527
Flexural strength	**140**	MPa	ISO 178
Tensile creep modulus, 1h	**4000**	MPa	ISO 899-1
Tensile creep modulus, 1000h	**2500**	MPa	ISO 899-1
Charpy notched impact strength, +23°C	**4.5**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	**6.5**	kJ/m²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**225**	°C	ISO 11357-1/-3
Temp. of deflection under load, 0.45 MPa	**215**	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-

Electrical properties	Value	Unit	Test Standard
Other Standards[S]			
Dissipation factor, 100Hz	**20**	E-4	IEC 60093
Dissipation factor, 1MHz	**200**	E-4	IEC 60093

S: These properties are reported by the producer according standards that are different to our defaults.

Other properties	Value	Unit	Test Standard
Humidity absorption	**0.3**	%	Sim. to ISO 62
Density	**1370**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**6**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**240 - 260**	°C	-
Mold temperature	**80**	°C	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, South and Central America

Delivery form

Black