BERGADUR® PB400G/MI35UBK

PBT-(GF+MD)35 — Avient Corporation

Product Texts

PBT, reinforced
glass fibre and minerals,
flame retardant based on halogene, UL-listing
only in "black-colour"

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**8000**	MPa	ISO 527
Stress at break	**105**	MPa	ISO 527
Strain at break	**3**	%	ISO 527
Charpy impact strength, +23°C	**32**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**30**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**5**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**4**	kJ/m²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**224**	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**190**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**205**	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	**V-0**	class	IEC 60695-11-10
Thickness tested	**0.9**	mm	-
Yellow Card available	**yes**	-	-
Burning behav. at thickness h	**V-0**	class	IEC 60695-11-10
Thickness tested	**3.0**	mm	-
Yellow Card available	**yes**	-	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	**3.5**	-	IEC 62631-2-1
Dissipation factor, 1MHz	**180**	E-4	IEC 62631-2-1
Volume resistivity	**>1E13**	Ohm*m	IEC 62631-3-1
Surface resistivity	**>1E15**	Ohm	IEC 62631-3-2
Electric strength	**29**	kV/mm	IEC 60243-1
Comparative tracking index	**250**	-	IEC 60112

Other properties	Value	Unit	Test Standard
Water absorption	**0.25**	%	Sim. to ISO 62
Humidity absorption	**0.1**	%	Sim. to ISO 62
Density	**1530**	kg/m³	ISO 1183

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	**240**	°C	ISO 294
Injection Molding, mold temperature	**80**	°C	ISO 294

Characteristics

Processing
Injection Molding

Regional Availability
Europe

Delivery form
Pellets

Other text information

Injection Molding

PREPROCESSING
Max. Water Content 0,04%
Pre-Drying: 120°C 2-4 Hours
PROCESSING
Melt Temperature 240-260°C
Mould Temperature 80°C