

Document	ISO Datasheet
Description	PBT
Grade	15 10 GF20 V0
Code	
Application	Knobs, electric components, connectors, air fan, lamp holder.

PBT 20% glass fiber reinforced, flame retardant UL94 V0 1,5mm.

Properties	Method	Unit	Value
<b>Physical</b>			
Density at 23°C	ISO 1183	g/cm <sup>3</sup>	1,57-1,59
Mould Shrinkage (%)	INTERNAL	%	0,4-0,6
Filler Content (1h/600°C)	ISO 3451-1	%	20
<b>Thermal</b>			
Vicat B50	ISO 306	°C	200
HDT, A (1.80 MPa)	ISO 75/Af	°C	195
<b>Mechanical at 23 °C</b>			
Flexural Modulus (23°C - 2 mm/min)	ISO 178	MPa	7000
Flexural strength (23°C - 2 mm/min)	ISO 178	MPa	100
Tensile stress at break (23°C-5 mm/min)	ISO 527-2	MPa	120
Tensile elong. at break (23°C-5 mm/min)	ISO 527-2	%	3,0
Izod notched impact strength (23°C) ISO	ISO 180/1A	KJ/m <sup>2</sup>	7
Charpy notched impact strength (23°C)	ISO 179/1eA	KJ/m <sup>2</sup>	7
Charpy unnotched impact strength (23°C)	ISO 179/1eU	KJ/m <sup>2</sup>	45
<b>Flammability Class</b>			
Glow Wire Flammability Index GWFI (1,5 mm)	IEC 606925-2-12	°C	960
Flammability class (1,5 mm)	UL94		V0
<b>Processing Conditions</b>			
Melt Temperature Range	ISO 294	°C	240-260
Mold Temperature Range	ISO 294	°C	80-100
Injection Velocity	ISO 294		MEDIUM
Drying Temperature		°C	
Drying Time		Hour	3
<b>Regulations compliance</b>			

RoHS compliance status	COMPLIANT
EN71	
UL listed file n°	QMFZ2.E220931
Water contact approvals	
Food contact status	

<sup>§</sup> Moulding shrinkage is not an intrinsic property of plastics. It also depends on moulding parameters. The values reported have been calculated in the direction parallel to the flow in a 3.0 x 12.7 x 127 mm sample.

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