Badadur® PBT/PC FR V0

Polycarbonate + PBT

Bada AG

Message:

Medium viscosity, flame retardent injection moulding grade with a well balanced ratio between mechanic and processing properties

General Information			
Features	Flame Retardant Medium Viscosity		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	1.30	g/cm³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	0.28	%	
Equilibrium, 23°C, 50% RH	0.090	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1] (23°C)	2600	MPa	ISO 527-2/1
Tensile Stress [2] (Break, 23°C)	55.0	MPa	ISO 527-2/5
Tensile Strain [3] (Break, 23°C)	8.0	%	ISO 527-2/5
Flexural Stress [4] (23°C)	90.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [5]			ISO 179/1eA
-30°C	14	kJ/m²	
23°C	18	kJ/m²	
Charpy Unnotched Impact Strength [6]			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature [7]			
0.45 MPa, Unannealed	100	°C	ISO 75-2/B
1.8 MPa, Unannealed	80.0	°C	ISO 75-2/A
Melting Temperature (DSC) [8]	223	°C	ISO 3146
CLTE [9]			DIN 53752
Flow	9.0E-5	cm/cm/°C	
Transverse	1.0E-4	cm/cm/°C	
Maximum Service Temperature			IEC 216
--	11020000 hrs	°C	
some hours	130	°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**

Surface Resistivity [10]	> 1.0E+15	ohms	IEC 60093
Volume Resistivity [11]	1.0E+17	ohms·cm	IEC 60093
Electric Strength [12]	25	kV/mm	IEC 60243-1
Relative Permittivity [13] (1 MHz)	3.10		IEC 60250
Dissipation Factor [14] (1 MHz)	0.015		IEC 60250
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	110 to 130	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	240 to 260	°C	
Mold Temperature	60.0 to 100	°C	
NOTE			
1.	Test Specimen accordng to ISO 3167, Type A		
2.	Test Specimen accordng to ISO 3167, Type A		
3.	Test Specimen accordng to ISO 3167, Type A		
4.	80x10x4 mm		
5.	80x10x4		
6.	80 x 10 x 4 mm		
7.	110x10x4 mm		
8.	10 K/min, Compound for moulding		
9.	>=10x10x4 mm		
10.	80x80x1 mm		
11.	80x80x1 mm		
12.	80x80x1 mm		
13.	80x80x1 mm		
14.	80x80x1 mm		

Recommended distributors for this material

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