

POCAN® B 3235 POS151 000000

Polybutylene Terephthalate

LANXESS GmbH

Message:

PBT, 30 % glass fibres, injection moulding, UV-stabilized

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	UV stabilizer		
Agency Ratings	EC 1907/2006 (REACH)		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.55	g/cm ³	ISO 1183
Apparent Density	0.70	g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	17.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 2577
Vertical flow direction: 260°C, 2.00mm ¹	1.1	%	ISO 2577
Vertical flow direction: 120°C, 4 hours, 2.00mm ²	0.20	%	ISO 2577
Flow direction: 260°C, 2.00mm ³	0.40	%	ISO 2577
Flow direction: 120°C, 4 hours, 2.00mm ⁴	0.20	%	ISO 2577
Water Absorption			ISO 62
Saturated, 23°C	0.40	%	ISO 62
Equilibrium, 23°C, 50% RH	0.10	%	ISO 62
Viscosity Number (Reduced Viscosity)	95.0	ml/g	ISO 1628
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	190	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	9500	MPa	ASTM D638
23°C	9800	MPa	ISO 527-2/1
Tensile Strength			
Fracture, 23°C	133	MPa	ASTM D638
Fracture, 23°C	140	MPa	ISO 527-2/5
Tensile Elongation			
Fracture, 23°C	2.5	%	ASTM D638
Fracture, 23°C	2.9	%	ISO 527-2/5
Tensile Creep Modulus			ISO 899-1
1 hr	9800	MPa	ISO 899-1
1000 hr	8900	MPa	ISO 899-1
Flexural Modulus			

23°C	7600	MPa	ASTM D790
23°C ⁵	9800	MPa	ISO 178/A
Flexural Strength			
23°C	190	MPa	ASTM D790
23°C ⁶	225	MPa	ISO 178/A
Flexural Strain at Flexural Strength ⁷ (23°C)	3.4	%	ISO 178/A
Burning Behavior ⁸	passed		ISO 3795
Electrolytical Corrosion (23°C)	A 1		IEC 60426
ISO Shortname	PBT,GHLMR,09-100,GF30		ISO 7792
Residual Moisture Content	0.0 - 0.020	%	Karl Fisher
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	< 10	kJ/m ²	ISO 179/1eA
23°C	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	60	kJ/m ²	ISO 179/1eU
23°C	65	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-40°C	< 10	kJ/m ²	ISO 180/1A
-30°C	< 10	kJ/m ²	ISO 180/1A
23°C	< 10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	55	kJ/m ²	ISO 180/1U
23°C	55	kJ/m ²	ISO 180/1U
Multi-Axial Instrumented Impact Energy			ISO 6603-2
-30°C	2.50	J	ISO 6603-2
23°C	2.30	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	220	°C	ISO 75-2/B
1.8 MPa, not annealed	210	°C	ISO 75-2/A
8.0 MPa, not annealed	165	°C	ISO 75-2/C
Vicat Softening Temperature	215	°C	ISO 306/B50
Ball Pressure Test (215°C)	Pass		IEC 60695-10-2
Melting Temperature ⁹	225	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 55°C	3.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	1.1E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity (23°C)	0.26	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (23°C, 1.00 mm)	29	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250

23°C, 100 Hz	4.00		IEC 60250
23°C, 1 MHz	3.80		IEC 60250
Comparative Tracking Index (Solution A)	350	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	HB		UL 94
1.60 mm	HB		UL 94
Glow Wire Flammability Index (2.00 mm)	650	°C	IEC 60695-2-12
Oxygen Index ¹⁰	20	%	ISO 4589-2
Injection	Nominal Value	Unit	Test Method
Drying Temperature - Circulation Dryer	120	°C	
Drying Time - Circulation Dryer	4.0 - 8.0	hr	
Processing (Melt) Temp	250 - 270	°C	
Mold Temperature	80.0 - 100	°C	
NOTE			
1.	60x60x2mm, 80°C MT, 600 bar		
2.	60x60x2mm		
3.	60x60x2mm, 80°C MT, 600 bar		
4.	60x60x2mm		
5.	2.0 mm/min		
6.	2.0 mm/min		
7.	2 mm/min		
8.	US-FMVSS302		
9.	10°C/min		
10.	Procedure A		

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