

POCAN® B 3233 HR 000000

Polybutylene Terephthalate

LANXESS GmbH

Message:

PBT, 30 % glass fibers, injection molding, improved flowability, hydrolysis stabilized

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Hydrolysis Resistant		
Features	Good Flow		
	Hydrolysis Resistant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.48	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	15.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 2577
Across Flow : 260°C, 2.00 mm ¹	1.0	%	
Across Flow : 120°C, 4 hr, 2.00 mm ²	0.10	%	
Flow : 260°C, 2.00 mm ³	0.30	%	
Flow : 120°C, 4 hr, 2.00 mm ⁴	0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	9600	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	125	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.9	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	9100	MPa	ISO 178/A
Flexural Stress ⁶ (23°C)	200	MPa	ISO 178/A
Flexural Strain at Flexural Strength ⁷ (23°C)	3.2	%	ISO 178/A
Burning Behavior ⁸	passed		ISO 3795
ISO Shortname	PBT, GHMRW, 09-100, GF30		ISO 7792
Residual Moisture Content	0.0 to 0.020	%	Karl Fisher
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	< 10	kJ/m ²	
23°C	< 10	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	55	kJ/m ²	
23°C	65	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A

-30°C	< 10	kJ/m ²	
23°C	< 10	kJ/m ²	
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	55	kJ/m ²	
23°C	55	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	205	°C	ISO 75-2/A
Vicat Softening Temperature	205	°C	ISO 306/B120
Melting Temperature ⁹	225	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow : 23 to 55°C	3.0E-5	cm/cm/°C	
Transverse : 23 to 55°C	1.3E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	450	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.750 mm)	HB		UL 94
Glow Wire Flammability Index			IEC 60695-2-12
0.800 mm	800	°C	
1.50 mm	800	°C	
3.00 mm	800	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.800 mm	825	°C	
1.50 mm	825	°C	
3.00 mm	825	°C	
Injection	Nominal Value	Unit	Test Method
Drying Temperature - Circulation Dryer	120	°C	
Drying Time - Circulation Dryer	4.0 to 8.0	hr	
Processing (Melt) Temp	250 to 270	°C	
Mold Temperature	80.0 to 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		

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