

POCAN® B 3225 XF 000000

Polybutylene Terephthalate

LANXESS GmbH

Message:

PBT, 20 % glass fibers, injection molding, improved flowability, improved impact strength

General Information			
UL YellowCard	E245249-100129046		
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	Impact resistance, good		
	Good liquidity		
Agency Ratings	EC 1907/2006 (REACH)		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.40	g/cm ³	ISO 1183
Apparent Density	0.65	g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	35.0	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	0.10	%	ISO 2577
Flow direction: 260°C, 2.00mm ³	0.50	%	ISO 2577
Flow direction: 120°C, 4 hours, 2.00mm ⁴	0.10	%	ISO 2577
Water Absorption			ISO 62
Saturated, 23°C	0.40	%	ISO 62
Equilibrium, 23°C, 50% RH	0.10	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	135	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	6500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	105	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.5	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	6100	MPa	ISO 178/A
Flexural Stress			ISO 178/A
3.5% strain, 23°C	160	MPa	ISO 178/A
23°C ⁶	165	MPa	ISO 178/A
Flexural Strain at Flexural Strength ⁷ (23°C)	3.7	%	ISO 178/A
ISO Shortname	PBT, GHMR, 07-060, GF20		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	40	kJ/m ²	ISO 179/1eU
23°C	60	kJ/m ²	ISO 179/1eU
Notched Izod Impact			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	40	kJ/m ²	ISO 180/1U
23°C	50	kJ/m ²	ISO 180/1U
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	200	°C	ISO 75-2/A
8.0 MPa, not annealed	130	°C	ISO 75-2/C
Vicat Softening Temperature	205	°C	ISO 306/B120
Melting Temperature ⁸	225	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 55°C	2.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	1.3E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	375	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.750 mm)	HB		UL 94
Glow Wire Flammability Index (2.00 mm)	750	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (2.00 mm)	775	°C	IEC 60695-2-13
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		

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