

POCAN® A 3121 000000

Polybutylene Terephthalate + ASA

LANXESS GmbH

Message:

PBT+ASA, 20 % glass fibers, injection molding, low tendency to warp, improved surface finish

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Low warpage		
	Excellent appearance		
Agency Ratings	EC 1907/2006 (REACH)		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.43	g/cm ³	ISO 1183
Apparent Density	0.70	g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (270°C/2.16 kg)	20.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 2577
Vertical flow direction: 270°C, 2.00mm ¹	0.70	%	ISO 2577
Vertical flow direction: 120°C, 4 hours, 2.00mm ²	0.20	%	ISO 2577
Flow direction: 270°C, 2.00mm ³	0.30	%	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	157	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	7000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	110	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.9	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	7000	MPa	ISO 178/A
Flexural Stress ⁶ (23°C)	170	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+PET+ASA, GHMR, 07-070, GF20		ISO 7792
Residual Moisture Content	0.0 - 0.020	%	Karl Fisher
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength			ISO 179/1eU

-30°C	40	kJ/m ²	ISO 179/1eU
23°C	55	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	< 10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	45	kJ/m ²	ISO 180/1U
23°C	50	kJ/m ²	ISO 180/1U
Multi-Axial Instrumented Impact Energy (23°C)	2.20	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	215	°C	ISO 75-2/B
1.8 MPa, not annealed	175	°C	ISO 75-2/A
Vicat Softening Temperature	165	°C	ISO 306/B120
Melting Temperature ⁹	225 - 260	°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	9.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	200	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
Injection	Nominal Value	Unit	Test Method
Drying Temperature - Circulation Dryer	120	°C	
Drying Time - Circulation Dryer	4.0 - 8.0	hr	
Processing (Melt) Temp	260 - 280	°C	
Mold Temperature	80.0 - 100	°C	
NOTE			
1.	60x60x2mm, 90°C MT, 600 bar		
2.	60x60x2mm		
3.	60x60x2mm, 90°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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