

POCAN® TP 306-201 000000

Polybutylene Terephthalate + ASA

LANXESS GmbH

Message:

PBT+ASA, 20 % glass fibers, injection molding, flame retardant, low tendency to warp

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	Flame retardancy		
Features	Low warpage		
	Flame retardancy		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PBT+ASA GF FR (17)		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.54	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	35.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 2577
Vertical flow direction: 260°C, 2.00mm ¹	0.70	%	ISO 2577
Vertical flow direction: 120°C, 4 hours, 2.00mm ²	0.10	%	ISO 2577
Flow direction: 260°C, 2.00mm ³	0.40	%	ISO 2577
Flow direction: 120°C, 4 hours, 2.00mm ⁴	0.10	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	7500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	105	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.4	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	7800	MPa	ISO 178/A
Flexural Stress ⁶ (23°C)	160	MPa	ISO 178/A
Flexural Strain at Flexural Strength ⁷ (23°C)	2.5	%	ISO 178/A
ISO Shortname	PBT+ASA, GFMR, 07-070, GF20		ISO 7792
Residual Moisture Content	0.0 - 0.020	%	Karl Fisher
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact Strength (23°C)	35	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	209	°C	ISO 75-2/B
1.8 MPa, not annealed	172	°C	ISO 75-2/A
Vicat Softening Temperature	152	°C	ISO 306/B120
Flammability	Nominal Value	Unit	Test Method

Flame Rating			UL 94
0.400 mm	V-0		UL 94
0.750 mm	V-0		UL 94
1.50 mm	V-0		UL 94
3.00 mm	V-0		UL 94
Glow Wire Flammability Index			IEC 60695-2-12
0.800 mm	960	°C	IEC 60695-2-12
1.50 mm	960	°C	IEC 60695-2-12
3.00 mm	960	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	Test Method
Drying Temperature - Circulation Dryer	120	°C	
Drying Time - Circulation Dryer	4.0 - 8.0	hr	
Processing (Melt) Temp	240 - 260	°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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