

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,20% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Low Warpage		
Processing Method	Injection Molding		
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
Across Flow : 260°C, 2.00 mm ¹	0.70	%	
Across Flow : 120°C, 4 hr, 2.00 mm ²	0.10	%	
Flow : 260°C, 2.00 mm ³	0.40	%	
Flow : 120°C, 4 hr, 2.00 mm ⁴	0.10	%	
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 1043-PBT+ASA GF FR (17)		ISO 7792
Residual Moisture Content	0.0 to 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, Unannealed	209	°C	ISO 75-2/B
1.8 MPa, Unannealed	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		
0.750 mm	V-0		
1.50 mm	V-0		
3.00 mm	V-0		
Glow Wire Flammability Index		IEC 60695-2-12	
0.800 mm	960	°C	
1.50 mm	960	°C	
3.00 mm	960	°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	240 to 260	°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		

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