

POCAN® AF 4130 000000

Polybutylene Terephthalate + ASA

LANXESS GmbH

Message:

PBT+ASA, 30% glass fibers, injection molding, flame retardant, low tendency to warp

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	Flame retardancy		
Features	Low warpage		
	Flame retardancy		
Agency Ratings	EC 1907/2006 (REACH)		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PBT+ASA GF FR (17)		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.61	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	25.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 2577
Vertical flow direction: 260°C, 2.00mm ¹	0.80	%	ISO 2577
Vertical flow direction: 120°C, 4 hours, 2.00mm ²	0.40	%	ISO 2577
Flow direction: 260°C, 2.00mm ³	0.30	%	ISO 2577
Flow direction: 120°C, 4 hours, 2.00mm ⁴	0.20	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	10500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	120	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.0	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	10000	MPa	ISO 178/A
Flexural Stress ⁶ (23°C)	180	MPa	ISO 178/A
Flexural Strain at Flexural Strength ⁷ (23°C)	2.2	%	ISO 178/A
ISO Shortname	PBT+ASA, GFMR, 09-110, GF30		ISO 7792
Residual Moisture Content	0.0 - 0.020	%	Karl Fisher
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	< 10	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	45	kJ/m²	ISO 179/1eU
Notched Izod Impact (23°C)	< 10	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	40	kJ/m²	ISO 180/1U
23°C	40	kJ/m²	ISO 180/1U

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	187	°C	ISO 75-2/A
Vicat Softening Temperature	157	°C	ISO 306/B50
Melting Temperature ⁸	222	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (CTI)	PLC 2		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			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
0.750 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
Glow Wire Ignition Temperature			IEC 60695-2-13
0.750 mm	800	°C	IEC 60695-2-13
1.50 mm	800	°C	IEC 60695-2-13
3.00 mm	800	°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	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		
8.	10°C/min		

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