

POCAN® TP 740-101 000000

Polybutylene Terephthalate + ASA

LANXESS GmbH

Message:

PBT+ASA, 15 % glass fibers, injection molding, low tendency to warp, improved surface finish

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 15% 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)	1.39	g/cm ³	ISO 1183
Apparent Density	0.80	g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (270°C/5.0 kg)	55.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction: 270°C, 2.00mm ¹	0.70	%	ISO 294-4
Vertical flow direction: 120°C, 2 hours, 2.00mm ²	0.30	%	ISO 294-4
Flow direction: 270°C, 2.00mm ³	0.40	%	ISO 294-4
Flow direction: 120°C, 2 hours, 2.00mm ⁴	0.20	%	ISO 294-4
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	150	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	6000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	100	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.5	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	5200	MPa	ISO 178/A
Flexural Stress ⁶ (23°C)	150	MPa	ISO 178
Flexural Strain at Flexural Strength ⁷ (23°C)	3.2	%	
ISO Shortname	PBT+PET+ASA, GHMR, 09-060, GF15		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	50	kJ/m ²	ISO 179/1eU
Unnotched Izod Impact Strength (23°C)	40	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	210	°C	ISO 75-2/B
1.8 MPa, not annealed	150	°C	ISO 75-2/A
Vicat Softening Temperature	165	°C	ISO 306/B120
Melting Temperature ⁸	225 - 250	°C	ISO 11357-3
Flammability	Nominal Value		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.	60x60x2; WZ 80°C; 600 Bar		
2.	60x60x2		
3.	60x60x2; WZ 80°C; 600 Bar		
4.	60x60x2		
5.	2.0 mm/min		
6.	2.0 mm/min		
7.	Pull Rate: 2 mm/min; 50% RH		
8.	10°C/min		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

