POCAN® TS 3221 901510

Polybutylene Terephthalate + PET

LANXESS GmbH

Message:

PBT+PET, 20 % glass fibers, injection molding, improved impact strength, low tendency to warp, improved surface finish, UV-stabilized

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	UV stabilizer		
Features	Low warpage Impact resistance, good Excellent appearance		
Agency Ratings	EC 1907/2006 (REACH)		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	1.39	g/cm³	ISO 1183
Apparent Density	0.70	g/cm³	ISO 60
Melt Volume-Flow Rate (MVR) (270°C/5.0 kg)	18.0	cm³/10min	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]	0.10	%	ISO 2577
Flow direction: 270°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)	5500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	75.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.3	%	ISO 527-2/5
Flexural Modulus [5] (23°C)	5100	MPa	ISO 178/A
Flexural Stress [6] (23°C)	120	MPa	ISO 178/A
Flexural Strain at Flexural Strength [7] (23°C)	3.8	%	ISO 178/A
ISO Shortname	PBT+PET, GHLMPR, 09-060, GF20		ISO 7792
Residual Moisture Content	0.0 - 0.020	%	Karl Fisher
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	< 10	kJ/m²	ISO 179/1eA
23°C	< 10	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	45	kJ/m²	ISO 179/1eU

23°C	50	kJ/m²	ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-30°C	< 10	kJ/m²	ISO 180/1A
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			
0.45 MPa, not annealed	205	°C	ISO 75-2/B
1.8 MPa, not annealed	140	°C	ISO 75-2/A
Vicat Softening Temperature	125	°C	ISO 306/B120
Melting Temperature [8]	225 - 250	°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	1.3E-4	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Comparative Tracking Index (Solution A)	250	V	IEC 60112
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.	10°C/min		

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