POCAN® ECO T 3220 000000

Polybutylene Terephthalate + PET

LANXESS Asia/Pacific

Message:

PBT+PET, 20 % glass fibers, injection molding, improved surface finish, contains 28 % post consumer recyclat, increased temperature peak load

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Recycled Content	Yes,28%		
Features	Good Surface Finish High Heat Resistance		
Agency Ratings	EC 1907/2006 (REACH)		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	1.47	g/cm³	ISO 1183
Apparent Density	0.80	g/cm³	ISO 60
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	15.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 2577
Across Flow : 270°C, 2.00 mm [1]	1.0	%	
Across Flow : 120°C, 4 hr, 2.00 mm [2]	0.20	%	
Flow : 270°C, 2.00 mm [3]	0.40	%	
Flow : 120°C, 4 hr, 2.00 mm [4]	0.10	%	
Water Absorption			ISO 62
Saturation, 23°C	0.40	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	7500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	120	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.2	%	ISO 527-2/5
Flexural Modulus [5] (23°C)	7500	MPa	ISO 178/A
Flexural Stress			ISO 178/A
3.5% Strain,23°C	195	MPa	
23°C [6]	195	MPa	
Flexural Strain at Flexural Strength [7] (23°C)	3.5	%	ISO 178/A
ISO Shortname	PBT+PET, GHMR, 09-070, GF20		ISO 7792
Residual Moisture Content	0.0 to 0.020	%	Karl Fisher
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA

-30°C	< 10	kJ/m²	
23°C	< 10	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	35	kJ/m²	
23°C	40	kJ/m²	
Notched Izod Impact Strength			ISO 180/1A
-30°C	< 10	kJ/m²	
23°C	< 10	kJ/m²	
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	35	kJ/m²	
23°C	35	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	195	°C	ISO 75-2/A
Vicat Softening Temperature	210	°C	ISO 306/B120
Melting Temperature [8]	225 to 250	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow : 23 to 55°C	3.0E-5	cm/cm/°C	
Transverse : 23 to 55°C	9.0E-5	cm/cm/°C	
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 to 8.0	hr	
Processing (Melt) Temp	260 to 280	°C	
Mold Temperature	80.0 to 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		

Recommended distributors for this material

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