POCAN® ECO T 3215 000000

Polybutylene Terephthalate + PET

LANXESS GmbH

Message:

PBT+PET, 15 % glass fibers, injection molding, improved surface finish, contains 30 % post consumer recyclat, increased temperature peak load

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Recycled Content	Yes, 30%		
Features	Heat resistance, high Excellent appearance		
Agency Ratings	EC 1907/2006 (REACH)		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	1.43	g/cm³	ISO 1183
Apparent Density	0.70	g/cm³	ISO 60
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	16.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 2577
Vertical flow direction: 270°C, 2.00mm [1]	1.0	%	ISO 2577
Vertical flow direction: 120°C, 4 hours, 2.00mm [2]	0.20	%	ISO 2577
Flow direction: 270°C, 2.00mm [3]	0.50	%	ISO 2577
Flow direction: 120°C, 4 hours, 2.00mm [4]	0.10	%	ISO 2577
Water Absorption			ISO 62
Saturated, 23°C	0.40	%	ISO 62
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness	180	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)	110	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2/5
Flexural Modulus [5] (23°C)	5800	MPa	ISO 178/A
Flexural Stress			ISO 178/A
3.5% strain, 23°C	165	MPa	ISO 178/A
23°C [6]	170	MPa	ISO 178/A
Flexural Strain at Flexural Strength [7] (23°C)	3.8	%	ISO 178/A
ISO Shortname	PBT+PET, GHMR, 09-060, GF15		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	30	kJ/m²	ISO 179/1eU
23°C	30	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 (23°C)	25	kJ/m²	ISO 180/1U
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	220	°C	ISO 75-2/B
1.8 MPa, not annealed	190	°C	ISO 75-2/A
Vicat Softening Temperature	205	°C	ISO 306/B50
Melting Temperature [8]	225 - 250	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 55°C	5.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	1.1E-4	cm/cm/°C	ISO 11359-2
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		

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