

POCAN® ECO T 3240 000000

Polybutylene Terephthalate + PET

LANXESS Corporation

Message:

PBT+PET, 45 % glass fibers, injection molding, improved surface finish, contains 25 % post consumer rezyklat, increased temperature peak load

General Information			
Filler / Reinforcement	Glass Fiber,45% Filler by Weight		
Recycled Content	Yes,25%		
Features	Good Surface Finish		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.69	g/cm ³	ISO 1183
Apparent Density	0.80	g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	30.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow : 270°C, 2.00 mm ¹	0.80	%	
Across Flow : 120°C, 2 hr, 2.00 mm ²	0.10	%	
Flow : 270°C, 2.00 mm ³	0.20	%	
Flow : 120°C, 2 hr, 2.00 mm ⁴	0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	16000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	160	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	1.9	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	15500	MPa	ISO 178/A
Flexural Stress ⁶ (23°C)	260	MPa	ISO 178
Flexural Strain at Flexural Strength ⁷ (23°C)	2.1	%	
ISO Shortname	PBT+PET, GHMR, 09-160, GF45		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/m ²	
23°C	< 10	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	65	kJ/m ²	
23°C	60	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-30°C	< 10	kJ/m ²	
23°C	< 10	kJ/m ²	

Unnotched Izod Impact Strength			ISO 180/1U
-30°C	60	kJ/m ²	
23°C	55	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	225	°C	ISO 75-2/B
1.8 MPa, Unannealed	205	°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	2.0E-5	cm/cm/°C	
Transverse : 23 to 55°C	8.0E-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.	60x60x2; MT 90°C; 600 Bar		
2.	60x60x2		
3.	60x60x2; MT 90°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		

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