

POCAN® T 7141 000000

Polybutylene Terephthalate + PET

LANXESS Corporation

Message:

PET+PBT, 40 % glass fibers/mineral, injection molding, improved flowability, high thermal dimension stability

General Information			
Filler / Reinforcement	Glass\Mineral,40% Filler by Weight		
Features	Good Dimensional Stability		
	Good Flow		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.70	g/cm ³	ISO 1183
Apparent Density	0.90	g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (280°C/2.16 kg)	25.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow : 280°C, 2.00 mm ¹	0.70	%	
Across Flow : 120°C, 2 hr, 2.00 mm ²	0.10	%	
Flow : 280°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)	12000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	125	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	1.6	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	11000	MPa	ISO 178/A
Flexural Stress ⁶ (23°C)	175	MPa	ISO 178
Flexural Strain at Flexural Strength ⁷ (23°C)	2.0	%	
ISO Shortname	PET+PBT, GHMR, 07-120, (GF+MD) 40		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	
Notched Izod Impact Strength			ISO 180/1A
-30°C	< 10	kJ/m ²	
23°C	< 10	kJ/m ²	
Unnotched Izod Impact Strength (23°C)	35	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, Unannealed	250	°C	ISO 75-2/B
1.8 MPa, Unannealed	205	°C	ISO 75-2/A
Vicat Softening Temperature	220	°C	ISO 306/B120
Melting Temperature ⁸	260	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow : 23 to 55°C	2.0E-5	cm/cm/°C	
Transverse : 23 to 55°C	5.0E-5	cm/cm/°C	
Flammability	Nominal Value	Unit	Test Method
Glow Wire Flammability Index			IEC 60695-2-12
0.800 mm	750	°C	
1.50 mm	750	°C	
3.00 mm	750	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.800 mm	775	°C	
1.50 mm	775	°C	
3.00 mm	775	°C	
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	270 to 290	°C	
Mold Temperature	100 to 130	°C	
NOTE			
1.	60x60x2; MT 80°C; 600 Bar		
2.	60x60x2		
3.	60x60x2; MT 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		

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