

POCAN® B 7616 000000

Polycarbonate + PBT

LANXESS Corporation

Message:

PBT+PC, 15 % glass fibers, injection molding, low tendency to warp, improved surface finish

General Information			
UL YellowCard	E245249-474029		
Filler / Reinforcement	Glass Fiber, 15% Filler by Weight		
Features	Good Surface Finish		
	Low Warpage		
Agency Ratings	EC 1907/2006 (REACH)		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.35	g/cm ³	ISO 1183
Apparent Density	0.80	g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	17.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow : 250°C, 2.00 mm ¹	0.50	%	
Across Flow : 120°C, 2 hr, 2.00 mm ²	0.20	%	
Flow : 250°C, 2.00 mm ³	0.70	%	
Flow : 120°C, 2 hr, 2.00 mm ⁴	0.40	%	
Water Absorption			ISO 62
Saturation, 23°C	0.40	%	
Equilibrium, 23°C, 50% RH	0.10	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	160	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	4600	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	75.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	4.2	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	4500	MPa	ISO 178/A
Flexural Stress ⁶			
3.5% Strain	120	MPa	ISO 178/A
23°C	130	MPa	ISO 178
Flexural Strain at Flexural Strength ⁷ (23°C)	4.7	%	
ISO Shortname	PBT+PC, GHMR, 09-050, GF15		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	50	kJ/m ²	
23°C	45	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	40	kJ/m ²	
23°C	35	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	135	°C	ISO 75-2/B
1.8 MPa, Unannealed	105	°C	ISO 75-2/A
8.0 MPa, Unannealed	75.0	°C	ISO 75-2/C
Vicat Softening Temperature	145	°C	ISO 306/B120
Ball Pressure Test (150°C)	Pass		IEC 60695-10-2
Melting Temperature ⁸	225	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow : 23 to 55°C	8.0E-5	cm/cm/°C	
Transverse : 23 to 55°C	5.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity (23°C)	> 1.0E+15	ohms · cm	IEC 60093
Electric Strength (23°C, 1.00 mm)	34	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
23°C, 100 Hz	3.50		
23°C, 1 MHz	3.40		
Dissipation Factor (23°C, 1 MHz)	0.013		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	HB		
1.60 mm	HB		
Glow Wire Flammability Index (2.00 mm)	750	°C	IEC 60695-2-12
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	250 to 260	°C	
Mold Temperature	80.0 to 100	°C	

NOTE	
1.	60x60x2; WZ 80°C; 600 Bar
2.	60x60x2
3.	60x60x2; WZ 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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