

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 reinforced material, 15% filler by weight		
Features	Low warpage		
	Excellent appearance		
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 2577
Vertical flow direction: 250°C, 2.00mm ¹	0.50	%	ISO 2577
Vertical flow direction: 120°C, 4 hours, 2.00mm ²	0.20	%	ISO 2577
Flow direction: 250°C, 2.00mm ³	0.70	%	ISO 2577
Flow direction: 120°C, 4 hours, 2.00mm ⁴	0.40	%	ISO 2577
Water Absorption			ISO 62
Saturated, 23°C	0.40	%	ISO 62
Equilibrium, 23°C, 50% RH	0.10	%	ISO 62
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			ISO 178/A
3.5% strain, 23°C	120	MPa	ISO 178/A
23°C ⁶	130	MPa	ISO 178/A
Flexural Strain at Flexural Strength ⁷ (23°C)	4.7	%	ISO 178/A
ISO Shortname	PBT+PC, GHMR, 09-050, 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/m ²	ISO 179/1eA
23°C	< 10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	50	kJ/m ²	ISO 179/1eU
23°C	45	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-30°C	< 10	kJ/m ²	ISO 180/1A
23°C	< 10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	40	kJ/m ²	ISO 180/1U
23°C	35	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	135	°C	ISO 75-2/B
1.8 MPa, not annealed	105	°C	ISO 75-2/A
8.0 MPa, not annealed	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
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 55°C	8.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	5.0E-5	cm/cm/°C	ISO 11359-2
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
Dielectric Strength (23°C, 1.00 mm)	34	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
23°C, 100 Hz	3.50		IEC 60250
23°C, 1 MHz	3.40		IEC 60250
Dissipation Factor (23°C, 1 MHz)	0.013		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	HB		UL 94
1.60 mm	HB		UL 94
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 - 8.0	hr	
Processing (Melt) Temp	250 - 260	°C	
Mold Temperature	80.0 - 100	°C	
NOTE			

1.	60x60x2mm, 80°C MT, 600 bar
2.	60x60x2mm
3.	60x60x2mm, 80°C MT, 600 bar
4.	60x60x2mm
5.	2.0 mm/min
6.	2.0 mm/min
7.	2 mm/min
8.	10°C/min

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