

POCAN® B 7375 000000

Polybutylene Terephthalate

LANXESS GmbH

Message:

PBT, 25 % white pigments, injection molding, improved light reflection, low tendency to warp

General Information	
UL YellowCard	E245249-474027
Features	Low Warpage
Processing Method	Injection Molding
Multi-Point Data	Creep Modulus vs. Time (ISO 11403-1)
	Isochronous Stress vs. Strain (ISO 11403-1)
	Isothermal Stress vs. Strain (ISO 11403-1)
	Secant Modulus vs. Strain (ISO 11403-1)
	Shear Modulus vs. Temperature (ISO 11403-1)
	Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.57	g/cm ³	ISO 1183
Apparent Density	0.90	g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	37.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 2577
Across Flow : 260°C, 2.00 mm ¹	1.7	%	
Across Flow : 120°C, 4 hr, 2.00 mm ²	0.30	%	
Flow : 260°C, 2.00 mm ³	1.8	%	
Flow : 120°C, 4 hr, 2.00 mm ⁴	0.30	%	
Water Absorption			ISO 62
Saturation, 23°C	0.40	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Viscosity Number (Reduced Viscosity)	105.0	ml/g	ISO 1628
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	160	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	55.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2/5
Tensile Creep Modulus			ISO 899-1
1 hr	3400	MPa	
1000 hr	2700	MPa	

Flexural Modulus ⁵ (23°C)	3400	MPa	ISO 178/A
Flexural Stress			ISO 178/A
3.5% Strain, 23°C	90.0	MPa	
23°C ⁶	95.0	MPa	
Flexural Strain at Flexural Strength ⁷ (23°C)	5.0	%	ISO 178/A
Electrolytical Corrosion (23°C)	A1		IEC 60426
ISO Shortname	PBT, GHMR, 09-030, MD25		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	65	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-40°C	< 10	kJ/m ²	
-30°C	< 10	kJ/m ²	
23°C	< 10	kJ/m ²	
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	45	kJ/m ²	
23°C	60	kJ/m ²	
Multi-Axial Instrumented Impact Energy (23°C)	3.20	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	165	°C	ISO 75-2/B
1.8 MPa, Unannealed	75.0	°C	ISO 75-2/A
Vicat Softening Temperature	190	°C	ISO 306/B120
Ball Pressure Test (200°C)	Pass		IEC 60695-10-2
Melting Temperature ⁸	225	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow : 23 to 55°C	1.0E-4	cm/cm/°C	
Transverse : 23 to 55°C	1.0E-4	cm/cm/°C	
Thermal Conductivity (23°C)	0.27	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+13	ohms	IEC 60093
Volume Resistivity (23°C)	> 1.0E+15	ohms · cm	IEC 60093
Electric Strength (23°C, 1.00 mm)	26	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
23°C, 100 Hz	4.50		
23°C, 1 MHz	4.20		

Dissipation Factor			IEC 60250
23°C, 100 Hz	3.0E-3		
23°C, 1 MHz	0.017		
Comparative Tracking Index (Solution A)	475	V	IEC 60112
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)	650	°C	IEC 60695-2-12
Oxygen Index ⁹	20	%	ISO 4589-2
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 270	°C	
Mold Temperature	80.0 to 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		
9.	Procedure A		

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