

POCAN® DP 7318 000000

Polybutylene Terephthalate

LANXESS GmbH

Message:

PBT, 17 % white pigments, injection molding, improved light reflection, low tendency to warp

General Information			
Filler / Reinforcement	Micro glass bead \glass fiber, 17% filler by weight		
Additive	Pigment (17%)		
Features	Low warpage		
	High reflectivity		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	White		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.50	g/cm ³	ISO 1183
Apparent Density	0.90	g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	27.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 2577
Vertical flow direction: 260°C, 3.00mm ¹	1.9	%	ISO 2577
Vertical flow direction: 110°C, 1 hour, 3.00mm ²	0.20	%	ISO 2577
Flow direction: 260°C, 3.00mm ³	1.9	%	ISO 2577
Flow direction: 110°C, 1 hour, 3.00mm ⁴	0.20	%	ISO 2577
Water Absorption			ISO 62
Saturated, 23°C	0.40	%	ISO 62
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Viscosity Number (Reduced Viscosity)	94.0	ml/g	ISO 1628
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3400	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	57.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	10	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	3200	MPa	ISO 178/A
Flexural Stress ⁶ (23°C)	95.0	MPa	ISO 178/A
Flexural Strain at Flexural Strength ⁷ (23°C)	6.0	%	ISO 178/A
ISO Shortname	PBT, GHMR, 09-030, MD17		ISO 7792
Residual Moisture Content	0.0 - 0.020	%	Karl Fisher
Impact	Nominal Value	Unit	Test Method

Charpy Unnotched Impact Strength (23°C)	130	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	< 10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	110	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	160	°C	ISO 75-2/B
Vicat Softening Temperature	190	°C	ISO 306/B50
Melting Temperature ⁸	225	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 55°C	9.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	9.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	HB		UL 94
1.60 mm	HB		UL 94
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 - 270	°C	
Mold Temperature	80.0 - 100	°C	
NOTE			
1.	150x105x3mm, 80°C MT, 600 bar		
2.	150x105x3mm		
3.	150x105x3mm, 80°C MT, 600 bar		
4.	150x105x3mm		
5.	2.0 mm/min		
6.	2.0 mm/min		
7.	2 mm/min		
8.	10°C/min		

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