

POCAN® KU 2-7317 000000

Polybutylene Terephthalate

LANXESS GmbH

Message:

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

General Information			
UL YellowCard	E245249-474049		
Features	Low warpage		
	Impact resistance, good		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.45	g/cm ³	ISO 1183
Apparent Density	0.90	g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	18.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction: 260°C, 2.00mm ¹	1.9	%	ISO 294-4
Vertical flow direction: 120°C, 2 hours, 2.00mm ²	0.30	%	ISO 294-4
Flow direction: 260°C, 2.00mm ³	1.9	%	ISO 294-4
Flow direction: 120°C, 2 hours, 2.00mm ⁴	0.30	%	ISO 294-4
Water Absorption			ISO 62
Saturated, 23°C	0.40	%	ISO 62
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	40.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	15	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	2600	MPa	ISO 178/A
Flexural Stress ⁶			
3.5% strain	70.0	MPa	ISO 178/A
23°C	75.0	MPa	ISO 178
Flexural Strain at Flexural Strength ⁷ (23°C)	5.8	%	
ISO Shortname	PBT, GHMPR, 09-020, MD17		ISO 7792
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	90	kJ/m ²	ISO 179/1eU
23°C	140	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-40°C	< 10	kJ/m ²	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	60	kJ/m ²	ISO 180/1U
23°C	130	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	140	°C	ISO 75-2/B
1.8 MPa, not annealed	60.0	°C	ISO 75-2/A
Vicat Softening Temperature	160	°C	ISO 306/B120
Melting Temperature ⁸	225	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 55°C	1.1E-4	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	1.1E-4	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
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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