

POCAN® KU 2-7241 000000

Polybutylene Terephthalate

LANXESS GmbH

Message:

PBT, 25 % glass fibers, injection molding, flame retardant, improved impact strength

General Information			
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Impact Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.58	g/cm ³	ISO 1183
Apparent Density	0.80	g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	28.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 2577
Across Flow : 260°C, 2.00 mm ¹	1.0	%	
Across Flow : 120°C, 4 hr, 2.00 mm ²	0.20	%	
Flow : 260°C, 2.00 mm ³	0.30	%	
Flow : 120°C, 4 hr, 2.00 mm ⁴	0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	8700	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	115	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.3	%	ISO 527-2/5
Flexural Modulus ⁵ (23°C)	7800	MPa	ISO 178/A
Flexural Stress			ISO 178/A
3.5% Strain,23°C	190	MPa	
23°C ⁶	195	MPa	
Flexural Strain at Flexural Strength ⁷ (23°C)	3.6	%	ISO 178/A
ISO Shortname	PBT, GFHMPR, 11-090, GF25; ISO 1043-PBT GF FR (17)		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	12	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	70	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength			ISO 180/1A

-30°C	< 10	kJ/m ²	
23°C	10	kJ/m ²	
Unnotched Izod Impact Strength (23°C)	55	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	190	°C	ISO 75-2/A
8.0 MPa, Unannealed	110	°C	ISO 75-2/C
Vicat Softening Temperature	200	°C	ISO 306/B50
Ball Pressure Test (207°C)	Pass		IEC 60695-10-2
Melting Temperature ⁸	225	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow : 23 to 55°C	3.0E-5	cm/cm/°C	
Transverse : 23 to 55°C	9.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+16	ohms	IEC 60093
Volume Resistivity (23°C)	> 1.0E+16	ohms·cm	IEC 60093
Electric Strength (23°C, 1.00 mm)	30	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
23°C, 100 Hz	3.80		
23°C, 1 MHz	3.70		
Comparative Tracking Index (CTI)	PLC 3		UL 746
Comparative Tracking Index (Solution A)	225	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	V-0		
1.50 mm	V-0		
3.00 mm	V-0		
Glow Wire Flammability Index			IEC 60695-2-12
0.750 mm	960	°C	
1.50 mm	960	°C	
3.00 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.750 mm	750	°C	
1.50 mm	725	°C	
3.00 mm	725	°C	
Oxygen Index ⁹	32	%	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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