

POCAN® KU 1-7625 901510

Polycarbonate + PBT

LANXESS Asia/Pacific

Message:

PBT+PC, 20 % glass fibers, injection molding, low tendency to warp, improved surface finish

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	Low warpage		
	Excellent appearance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.39	g/cm ³	ISO 1183
Apparent Density	0.70	g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	30.0	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturated, 23°C	0.30	%	ISO 62
Equilibrium, 23°C, 50% RH	0.10	%	ISO 62
Viscosity Number (Reduced Viscosity)	62.0	ml/g	ISO 1628
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	5500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	85.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.4	%	ISO 527-2/5
Flexural Modulus ¹ (23°C)	5500	MPa	ISO 178/A
Flexural Stress ² (23°C)	140	MPa	ISO 178/A
Flexural Strain at Flexural Strength ³ (23°C)	3.5	%	ISO 178/A
ISO Shortname	PBT+PC, GHMR, 09-050, GF20		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	40	kJ/m ²	ISO 179/1eU
23°C	40	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	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	150	°C	ISO 75-2/B
1.8 MPa, not annealed	115	°C	ISO 75-2/A
Vicat Softening Temperature	145	°C	ISO 306/B120
Melting Temperature ⁴	225	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 55°C	4.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	7.0E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.800 mm	HB		UL 94
1.60 mm	HB		UL 94
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	2 mm/min		
4.	10°C/min		

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