

Lanxess Pocan® KU 2-7241 000000 PBT, 25% Glass Fiber

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled , Polybutylene Terephthalate (PBT), Glass Fiber Filled, Flame Retardant , Polybutylene Terephthalate (PBT), Glass Filled, Impact Modified

Material Notes:

PBT, 25% glass fibers, injection molding, flame retardant, improved impact strength Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Pocan-KU-2-7241-000000-PBT-25-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Bulk Density	0.800 g/cc	0.0289 lb/in ³	ISO 60
Density	1.60 g/cc	0.0578 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0026 cm/cm	0.0026 in/in	150x105x3, 260°C / MT 80°C; 500 bar; ISO 2577
Linear Mold Shrinkage, Transverse	0.0104 cm/cm	0.0104 in/in	150x105x3, 260°C / MT 80°C; 500 bar; ISO 2577
Melt Flow	8.0 g/10 min @Load 2.16 kg, Temperature 260 °C	8.0 g/10 min @Load 4.76 lb, Temperature 500 °F	ISO 1133-1

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa	17400 psi	5 mm/min; ISO 527-1,-2
Elongation at Break	3.1 %	3.1 %	5 mm/min; ISO 527-1,-2
Tensile Modulus	9.00 GPa	1310 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	195 MPa	28300 psi	2 mm/min; ISO 178-A
Flexural Modulus	7.80 GPa	1130 ksi	2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	<= 10.0 kJ/m ² @Temperature -30.0 °C	<= 4.76 ft-lb/in ² @Temperature -22.0 °F	ISO 180-1A
	<= 10.0 kJ/m ² @Temperature -40.0 °C	<= 4.76 ft-lb/in ² @Temperature -40.0 °F	ISO 180-1A
	10.0 kJ/m ² @Temperature 23.0 °C	4.76 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1A
Izod Impact, Unnotched (ISO)	55.0 kJ/m ² @Temperature 23.0	26.2 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1U

Mechanical Properties	Metric	English	Comments
Charpy Impact Unnotched	7.00 J/cm ² @Temperature 23.0 °C	33.3 ft-lb/in ² @Temperature 73.4 °F	ISO 179-1eU
Charpy Impact, Notched	<= 1.00 J/cm ² @Temperature -30.0 °C	<= 4.76 ft-lb/in ² @Temperature -22.0 °F	ISO 179-1eA
	1.20 J/cm ² @Temperature 23.0 °C	5.71 ft-lb/in ² @Temperature 73.4 °F	ISO 179-1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 µm/m-°C @Temperature 23.0 - 55.0 °C	16.7 µin/in-°F @Temperature 73.4 - 131 °F	ISO 11359-1,-2
CTE, linear, Transverse to Flow	90.0 µm/m-°C @Temperature 23.0 - 55.0 °C	50.0 µin/in-°F @Temperature 73.4 - 131 °F	ISO 11359-1,-2
Melting Point	225 °C	437 °F	10 °C/min; ISO 11357-1,-3
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °F	ISO 75-1,-2
Deflection Temperature at 8.0 MPa	110 °C	230 °F	ISO 75-1,-2
Vicat Softening Point	200 °C	392 °F	50 N; 50 °C/h; ISO 306
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	
	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	
Oxygen Index	32 %	32 %	Method A; ISO 4589-2
Shrinkage	0.0700 % @Temperature 120 °C, Time 14400 sec	0.0700 % @Temperature 248 °F, Time 4.00 hour	post-shrinkage, transverse, 150x105x3; ISO 2577
	0.260 % @Temperature 120 °C, Time 14400 sec	0.260 % @Temperature 248 °F, Time 4.00 hour	post-shrinkage, 150x105x3; ISO 2577

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	IEC 60093
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	IEC 60093
Dielectric Constant	3.7	3.7	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.8	3.8	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 60243-1
Comparative Tracking Index	225 V	225 V	Solution A; UL 746A

Processing Properties	Metric	English	Comments
Melt Temperature	260 Â°C	500 Â°F	Injection molding; ISO 294
Mold Temperature	80.0 Â°C	176 Â°F	Injection molding; ISO 294
Dry Time	4.00 - 8.00 hour	4.00 - 8.00 hour	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
Moisture Content	0.00 - 0.020 %	0.00 - 0.020 %	Karl Fischer test

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