

## Lanxess Pocan® KL 1-7033 00000 PBT, 30% Glass Fiber

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

### Material Notes:

PBT, 30% glass fibers, injection molding, impact modified

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Pocan-KL-1-7033-00000-PBT-30-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Lanxess-Pocan-KL-1-7033-00000-PBT-30-Glass-Fiber.php)

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.40 %	0.40 %	Test Sim. to ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23 <sup>o</sup> C/50% R.H.; Test Sim. to ISO 62
Melt Flow	17 g/10 min @Load 5.00 kg, Temperature 260 <sup>o</sup> C	17 g/10 min @Load 11.0 lb, Temperature 500 <sup>o</sup> F	Calculated from MVR using melt density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	ISO 527-1/-2
Elongation at Break	3.5 %	3.5 %	ISO 527-1/-2
Tensile Modulus	8.40 GPa	1220 ksi	ISO 527-1/-2
Charpy Impact Unnotched	6.50 J/cm <sup>2</sup> @Temperature -30.0 <sup>o</sup> C	30.9 ft-lb/in <sup>2</sup> @Temperature -22.0 <sup>o</sup> F	ISO 179/1eU
	7.50 J/cm <sup>2</sup> @Temperature 23.0 <sup>o</sup> C	35.7 ft-lb/in <sup>2</sup> @Temperature 73.4 <sup>o</sup> F	ISO 179/1eU
Charpy Impact, Notched	1.00 J/cm <sup>2</sup> @Temperature -30.0 <sup>o</sup> C	4.76 ft-lb/in <sup>2</sup> @Temperature -22.0 <sup>o</sup> F	ISO 179/1eA
	1.20 J/cm <sup>2</sup> @Temperature 23.0 <sup>o</sup> C	5.71 ft-lb/in <sup>2</sup> @Temperature 73.4 <sup>o</sup> F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 $\mu$ m/m- <sup>o</sup> C	16.7 $\mu$ in/in- <sup>o</sup> F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	100 $\mu$ m/m- <sup>o</sup> C	55.6 $\mu$ in/in- <sup>o</sup> F	ISO 11359-1/-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	220 Â°C	428 Â°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	200 Â°C	392 Â°F	ISO 75-1/-2
Vicat Softening Point	185 Â°C	365 Â°F	50Â°C/h 50N; ISO 306
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	HB	HB	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	21 %	21 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 60093
Dielectric Constant	3.9	3.9	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.6	4.6	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	28.0 kV/mm	711 kV/in	IEC 60243-1
Dissipation Factor	0.0060	0.0060	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.026	0.026	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

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 10724

Descriptive Properties	Value	Comments
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Features Descriptive Properties	High impact or high impact modified Value	Comments
Form	Pellets	
ISO Shortname	ISO 7792-1-PBT,GHMPR,09-080,GF30	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	

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