

Lanxess Pocan® T 7141 000000 PET + PBT, 40% Glass Fiber/Mineral

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , PBT + PET Blend, Glass Filled , Polyethylene Terephthalate (PET)

Material Notes:

PET + PBT, 40% glass fibers/mineral, injection molding, improved flowability, high thermal dimensional stability
Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Pocan-T-7141-000000-PET-PBT-40-Glass-FiberMineral.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 g/cc	1.70 g/cc	ISO 1183
Bulk Density	0.900 g/cc	0.0325 lb/in ³	ISO 60
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0020 cm/cm	0.0020 in/in	60x60x2; 280°C / MT 80°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0010 cm/cm	0.0010 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0070 cm/cm	0.0070 in/in	60x60x2; 280°C / MT 80°C; 600 bar; ISO 294-4
Melt Flow	25 g/10 min @Load 2.16 kg, Temperature 280 °C	25 g/10 min @Load 4.76 lb, Temperature 536 °F	ISO 1133-1

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	125 MPa	18100 psi	ISO 527-1, -2; 5 mm/min
Elongation at Break	1.6 %	1.6 %	ISO 527-1, -2; 5 mm/min
Tensile Modulus	12.0 GPa	1740 ksi	ISO 527-1, -2; 1 mm/min
Flexural Strength	175 MPa	25400 psi	2 mm/min; ISO 178-A
	@Strain 2.00 %	@Strain 2.00 %	
Flexural Modulus	11.0 GPa	1600 ksi	2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	<= 10.0 kJ/m ² @Temperature 23.0 °C	<= 4.76 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1A
	<= 10.0 kJ/m ² @Temperature -30.0 °C	<= 4.76 ft-lb/in ² @Temperature -22.0 °F	

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched (ISO)	35.0 kJ/mÂ°	16.1 ft-lb/inÂ°	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	ISO 180-1U
Charpy Impact, Notched	<= 1.00 J/cmÂ²	<= 4.76 ft-lb/inÂ²	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	ISO 179-1eA
	<= 1.00 J/cmÂ²	<= 4.76 ft-lb/inÂ²	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ISO 179-1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 Âµm/m-Â°C	11.1 Âµin/in-Â°F	
	@Temperature 23.0 - 55.0 Â°C	@Temperature 73.4 - 131 Â°F	ISO 11359-1, -2
CTE, linear, Transverse to Flow	50.0 Âµm/m-Â°C	27.8 Âµin/in-Â°F	
	@Temperature 23.0 - 55.0 Â°C	@Temperature 73.4 - 131 Â°F	ISO 11359-1, -2
Melting Point	260 Â°C	500 Â°F	10Â°C/min; ISO 11357-1, -3
Deflection Temperature at 0.46 MPa (66 psi)	250 Â°C	482 Â°F	ISO 75-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	205 Â°C	401 Â°F	ISO 75-1, -2
Vicat Softening Point	220 Â°C	428 Â°F	
	@Load 5.10 kg	@Load 11.2 lb	120Â°C/hour; ISO 306
Glow Wire Test	750 Â°C	1380 Â°F	
	@Diameter 0.800 mm	@Diameter 0.0315 in	GWFI; IEC 60695-2-12
	750 Â°C	1380 Â°F	
	@Diameter 1.50 mm	@Diameter 0.0591 in	GWFI; IEC 60695-2-12
	750 Â°C	1380 Â°F	
	@Diameter 3.00 mm	@Diameter 0.118 in	GWFI; IEC 60695-2-12
	775 Â°C	1430 Â°F	
	@Diameter 0.800 mm	@Diameter 0.0315 in	GWIT; IEC 60695-2-13
	775 Â°C	1430 Â°F	
	@Diameter 1.50 mm	@Diameter 0.0591 in	GWIT; IEC 60695-2-13
	775 Â°C	1430 Â°F	

Thermal Properties	Metric @ Diameter 3.00 mm	English @ Diameter 0.118 in	Comments GWIT: IEC 60695-2-13
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Processing Properties	Metric	English	Comments
Melt Temperature	270 - 290 Â°C	518 - 554 Â°F	
	280 Â°C	536 Â°F	for test specimens; ISO 294
Mold Temperature	110 Â°C	230 Â°F	for test specimens; ISO 294
	100 - 130 Â°C	212 - 266 Â°F	
Drying Temperature	120 Â°C	248 Â°F	
Dry Time	4 - 8 hour	4 - 8 hour	
Moisture Content	0.00 - 0.020 %	0.00 - 0.020 %	residual; Karl Fischer Test

Descriptive Properties	Value	Comments
ISO Shortname	ISO 7792-1-PET+PBT, GHMR, 07-120, (GF+MD)40	

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