

Lanxess Pocan® A 3121 901510 PBT+ASA, 20% Glass Fiber

Category : Polymer , Thermoplastic , ASA Polymer , Polyester, TP , Polybutylene Terephthalate (PBT) , PBT + ASA Blend, Glass Fiber Reinforced

Material Notes:

PBT + ASA, 20% glass fibers, injection molding, low tendency to warp, improved surface finish Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Pocan-A-3121-901510-PBTASA-20-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ISO 1183
Bulk Density	0.700 g/cc	0.0253 lb/in ³	ISO 60
Moisture Absorption at Equilibrium	0.10 %	0.10 %	50% RH; ISO 62
Water Absorption at Saturation	0.40 %	0.40 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0030 cm/cm	0.0030 in/in	60x60x2; 270°C / MT 90°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0020 cm/cm	0.0020 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0070 cm/cm	0.0070 in/in	60x60x2; 270°C / MT 90°C; 600 bar; ISO 294-4
Melt Flow	20 g/10 min @Load 2.16 kg, Temperature 270 °C	20 g/10 min @Load 4.76 lb, Temperature 518 °F	ISO 1133-1

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	157 MPa	22800 psi	ISO 2039-1
Tensile Strength at Break	110 MPa	16000 psi	ISO 527-1, -2; 5 mm/min
Elongation at Break	2.9 %	2.9 %	ISO 527-1, -2; 5 mm/min
Tensile Modulus	7.00 GPa	1020 ksi	ISO 527-1, -2; 1 mm/min
Flexural Strength	170 MPa	24700 psi	2 mm/min; ISO 178-A
	@Strain 3.20 %	@Strain 3.20 %	
Flexural Modulus	7.00 GPa	1020 ksi	2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	<= 10.0 kJ/m ²	<= 4.76 ft-lb/in ²	ISO 180-1A
Izod Impact, Unnotched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	ISO 180-1U

Mechanical Properties	Metric	English	Comments
	50.0 kJ/m ²	23.8 ft-lb/in ²	ISO 180-1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	5.50 J/cm ²	26.2 ft-lb/in ²	ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Puncture Energy	2.20 J	1.62 ft-lb	ISO 6603-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 µm/m-°C	16.7 µin/in-°F	ISO 11359-1, -2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
CTE, linear, Transverse to Flow	90.0 µm/m-°C	50.0 µin/in-°F	ISO 11359-1, -2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
Melting Point	225 - 260 °C	437 - 500 °F	10°C/min; ISO 11357-1, -3
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	ISO 75-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	175 °C	347 °F	ISO 75-1, -2
Vicat Softening Point	165 °C	329 °F	120°C/hour; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	200 V	200 V	d.a.m.; Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 280 °C	500 - 536 °F	

Processing Properties	Metric 270 Â°C	English 518 Â°F	Comments for test specimens; ISO 294
Mold Temperature	80.0 - 100 Â°C	176 - 212 Â°F	
	90.0 Â°C	194 Â°F	for test specimens; ISO 294
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
Flammability Test	passed	ISO 3795; US-FMVSS302
ISO Shortname	ISO 7792-1-PBT+PET+ASA, GHMR, 07-070, GF20	

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