

Lanxess Pocan® C 1206 000000 PET + PC

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/PET Polyester Blend , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

PET + PC, non-reinforced, injection molding, improved impact strength Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Pocan-C-1206-000000-PET-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ISO 1183
Bulk Density	0.800 g/cc	0.0289 lb/in ³	ISO 60
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0070 cm/cm	0.0070 in/in	60x60x2; 270°C / WZ 80°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0030 cm/cm	0.0030 in/in	Post-shrinkage, 60x60x2; 120°C; 4 hour; ISO 294-4
	0.0070 cm/cm	0.0070 in/in	60x60x2; 270°C / WZ 80°C; 600 bar; ISO 294-4
Melt Flow	30 g/10 min @Load 5.00 kg, Temperature 260 °C	30 g/10 min @Load 11.0 lb, Temperature 500 °F	ISO 1133-1

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.0 MPa	7250 psi	ISO 527-1, -2; 50 mm/min
Elongation at Break	10 %	10 %	ISO 527-1, -2; 50 mm/min
Elongation at Yield	4.5 %	4.5 %	ISO 527-1, -2; 50 mm/min
Tensile Modulus	2.20 GPa	319 ksi	ISO 527-1, -2; 1 mm/min
Flexural Strength	75.0 MPa	10900 psi	2 mm/min; ISO 178-A
	@Strain 5.00 %	@Strain 5.00 %	
Flexural Yield Strength	65.0 MPa	9430 psi	2 mm/min; ISO 178-A
	@Strain 3.50 %	@Strain 3.50 %	
Flexural Modulus	2.20 GPa	319 ksi	2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	ISO 180-1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	50.0 kJ/m ²	23.8 ft-lb/in ²	

Mechanical Properties	Metric @Temperature 23.0 °C	English @Temperature 73.4 °F	ISO 180-1A Comments
Izod Impact, Unnotched (ISO)	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 180-1U
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 180-1U
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179-1eU
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179-1eU
Charpy Impact, Notched	2.00 J/cm ² @Temperature -30.0 °C	9.52 ft-lb/in ² @Temperature -22.0 °F	ISO 179-1eA
	5.50 J/cm ² @Temperature 23.0 °C	26.2 ft-lb/in ² @Temperature 73.4 °F	ISO 179-1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel 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
CTE, linear, Transverse to Flow	80.0 μm/m-°C @Temperature 23.0 - 55.0 °C	44.4 μin/in-°F @Temperature 73.4 - 131 °F	ISO 11359-1, -2
Melting Point	250 °C	482 °F	10°C/min; ISO 11357-1, -3
Deflection Temperature at 0.46 MPa (66 psi)	120 °C	248 °F	ISO 75-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	ISO 75-1, -2
Vicat Softening Point	130 °C @Load 5.10 kg	266 °F @Load 11.2 lb	120°C/hour; ISO 306

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 280 °C	500 - 536 °F	admissible residence time at Tmax <= 10 min
	270 °C	518 °F	for test specimens; ISO 294
Mold Temperature	70.0 - 90.0 °C	158 - 194 °F	

Processing Properties	80.0 °C Metric	176 °F English	for test specimens; ISO 294 Comments
Drying Temperature	120 °C	248 °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+PC, GHMPR, 09-020	

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