

## Lanxess Pocan® C 1202 000000 PET + PC

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polyester, TP , Polybutylene Terephthalate (PBT)

### Material Notes:

PBT + PC, non-reinforced, injection molding, improved impact strength, low tendency to warp, UV-stabilized  
Information provided by LANXESS.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Pocan-C-1202-000000-PET-PC.php](http://www.lookpolymers.com/polymer_Lanxess-Pocan-C-1202-000000-PET-PC.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ISO 1183
Bulk Density	0.800 g/cc	0.0289 lb/in <sup>3</sup>	ISO 60
Linear Mold Shrinkage, Flow	0.010 cm/cm	0.010 in/in	60x60x2; 250 <sup>o</sup> C / WZ 80 <sup>o</sup> C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	60x60x2; 250 <sup>o</sup> C / WZ 80 <sup>o</sup> C; 600 bar; ISO 294-4
Melt Flow	45 g/10 min @Load 5.00 kg, Temperature 270 <sup>o</sup> C	45 g/10 min @Load 11.0 lb, Temperature 518 <sup>o</sup> 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	4.0 %	4.0 %	ISO 527-1, -2; 50 mm/min
Tensile Modulus	2.10 GPa	305 ksi	ISO 527-1, -2; 1 mm/min
Flexural Strength	75.0 MPa @Strain 5.50 %	10900 psi @Strain 5.50 %	2 mm/min; ISO 178-A
Flexural Yield Strength	70.0 MPa @Strain 3.50 %	10200 psi @Strain 3.50 %	2 mm/min; ISO 178-A
Flexural Modulus	2.10 GPa	305 ksi	2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	17.0 kJ/m <sup>2</sup> @Temperature -30.0 <sup>o</sup> C	8.09 ft-lb/in <sup>2</sup> @Temperature -22.0 <sup>o</sup> F	ISO 180-1A
	50.0 kJ/m <sup>2</sup> @Temperature 23.0 <sup>o</sup> C	23.8 ft-lb/in <sup>2</sup> @Temperature 73.4 <sup>o</sup> F	ISO 180-1A

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched (ISO)	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 180-1U
	NB	NB	ISO 180-1U
Charpy Impact Unnotched	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179-1eU
	NB	NB	ISO 179-1eU
Charpy Impact, Notched	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179-1eA
	NB	NB	ISO 179-1eA
Charpy Impact, Notched	1.80 J/cm <sup>2</sup>	8.57 ft-lb/in <sup>2</sup>	ISO 179-1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179-1eA
Charpy Impact, Notched	5.50 J/cm <sup>2</sup>	26.2 ft-lb/in <sup>2</sup>	ISO 179-1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179-1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel 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	ISO 11359-1, -2
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	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)	100 °C	212 °F	ISO 75-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	ISO 75-1, -2
Vicat Softening Point	120 °C	248 °F	120°C/hour; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	120°C/hour; ISO 306

Processing Properties	Metric	English	Comments
Melt Temperature	250 °C	482 °F	for test specimens; ISO 294
	250 - 265 °C	482 - 509 °F	for test specimens; ISO 294

Processing Properties	Metric	English	Comments
	60.0 - 90.0 Â°C	140 - 194 Â°F	ASTM D 1284; 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
ISO Shortname	ISO 7792-1-PBT+PC, GHLMPR, 11-020	

## Contact Songhan Plastic Technology Co.,Ltd.

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