

Lanxess Pocan® DP C 1502 000000 PBT + 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-DP-C-1502-000000-PBT-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ISO 1183
Linear Mold Shrinkage, Flow	0.012 cm/cm	0.012 in/in	60x60x2; 250°C / WZ 70°C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	60x60x2; 250°C / WZ 70°C; 600 bar; ISO 294-4
Melt Flow	35 g/10 min @Load 5.00 kg, Temperature 270 °C	35 g/10 min @Load 11.0 lb, Temperature 518 °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	>= 40 %	>= 40 %	ISO 527-1, -2; 50 mm/min
Elongation at Yield	3.8 %	3.8 %	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	65.0 MPa @Strain 3.50 %	9430 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 ² @Temperature -30.0 °C	8.09 ft-lb/in ² @Temperature -22.0 °F	ISO 180-1A
	60.0 kJ/m ² @Temperature 23.0 °C	28.6 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1A
	NB	NB	

Mechanical Properties	Metric	English	Comments
Impact, Unnotched (ISO)	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 180-1U
	NB	NB	
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 180-1U
Charpy Impact Unnotched	NB	NB	ISO 179-1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	ISO 179-1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179-1eU
Charpy Impact, Notched	1.90 J/cm ²	9.04 ft-lb/in ²	ISO 179-1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	6.00 J/cm ²	28.6 ft-lb/in ²	ISO 179-1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	110 µm/m-°C	61.1 µin/in-°F	ISO 11359-1, -2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
CTE, linear, Transverse to Flow	110 µm/m-°C	61.1 µin/in-°F	ISO 11359-1, -2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
Melting Point	225 °C	437 °F	10°C/min; ISO 11357-1, -3
Deflection Temperature at 0.46 MPa (66 psi)	105 °C	221 °F	ISO 75-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	ISO 75-1, -2
Vicat Softening Point	125 °C	257 °F	120°C/hour; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
Flammability, UL94	HB	HB	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Glow Wire Test	750 °C	1380 °F	GWFI; IEC 60695-2-12
	@Diameter 4.00 mm	@Diameter 0.157 in	

Processing Properties	Metric	English	Comments
Melt Temperature	250 Â°C	482 Â°F	for test specimens; ISO 294
	250 - 265 Â°C	482 - 509 Â°F	
Mold Temperature	70.0 Â°C	158 Â°F	for test specimens; ISO 294
	60.0 - 90.0 Â°C	140 - 194 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-PBT+PC, GHLMPPR, 11-020	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China