

Lanxess Pocan® DP T 7140 LDS 000000 PET + PBT, 42% Glass Fiber/Mineral

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

Material Notes:

PET + PBT, 44% glass fibers/mineral, injection molding, LDS, high thermal dimensional stability Information provided by LANXESS.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Pocan-DP-T-7140-LDS-000000-PET-PBT-42-Glass-FiberMineral.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.74 g/cc	1.74 g/cc	ISO 1183
Bulk Density	1.00 g/cc	0.0361 lb/in ³	ISO 60
Viscosity Test	50 cm ³ /g	50 cm ³ /g	Viscosity number; ISO 1628-5
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 / WZ 110°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; 280°C / WZ 110°C; 600 bar; ISO 294-4
Melt Flow	21 g/10 min	21 g/10 min	ISO 1133-1
	@Load 2.16 kg, Temperature 280 °C	@Load 4.76 lb, Temperature 536 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	ISO 527-1, -2; 5 mm/min
Elongation at Break	1.3 %	1.3 %	ISO 527-1, -2; 5 mm/min
Tensile Modulus	12.7 GPa	1840 ksi	ISO 527-1, -2; 1 mm/min
Flexural Strength	170 MPa	24700 psi	2 mm/min; ISO 178-A
	@Strain 1.70 %	@Strain 1.70 %	
Flexural Modulus	12.8 GPa	1860 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
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	<= 10.0 kJ/m ²	<= 4.76 ft-lb/in ²	ISO 180-1A
	@Temperature -30.0	@Temperature -22.0	

Mechanical Properties	°C Metric	°F English	Comments
Izod Impact, Unnotched (ISO)	25.0 kJ/m ² @Temperature 23.0 °C	11.9 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1U
	25.0 kJ/m ² @Temperature -30.0 °C	11.9 ft-lb/in ² @Temperature -22.0 °F	ISO 180-1U
Charpy Impact Unnotched	2.50 J/cm ² @Temperature -30.0 °C	11.9 ft-lb/in ² @Temperature -22.0 °F	ISO 179-1eU
	3.00 J/cm ² @Temperature 23.0 °C	14.3 ft-lb/in ² @Temperature 73.4 °F	ISO 179-1eU
Charpy Impact, Notched	<= 1.00 J/cm ² @Temperature 23.0 °C	<= 4.76 ft-lb/in ² @Temperature 73.4 °F	ISO 179-1eA
	<= 1.00 J/cm ² @Temperature -30.0 °C	<= 4.76 ft-lb/in ² @Temperature -22.0 °F	ISO 179-1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 Åµm/m-Å°C @Temperature 23.0 - 55.0 Å°C	11.1 Åµin/in-Å°F @Temperature 73.4 - 131 Å°F	ISO 11359-1, -2
CTE, linear, Transverse to Flow	50.0 Åµm/m-Å°C @Temperature 23.0 - 55.0 Å°C	27.8 Åµin/in-Å°F @Temperature 73.4 - 131 Å°F	ISO 11359-1, -2
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ftÅ²-Å°F	ISO 8302
Melting Point	255 Å°C	491 Å°F	10Å°C/min; ISO 11357-1, -3
Deflection Temperature at 0.46 MPa (66 psi)	250 Å°C	482 Å°F	ISO 75-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	210 Å°C	410 Å°F	ISO 75-1, -2
Vicat Softening Point	225 Å°C @Load 5.10 kg	437 Å°F @Load 11.2 lb	120Å°C/hour; ISO 306
Flammability, UL94	HB	HB	

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+20 ohm-cm	2.00e+20 ohm-cm	IEC 60093
Surface Resistance	5.40e+16 ohm	5.40e+16 ohm	IEC 60093
Dielectric Constant	4.1	4.1	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.3	4.3	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	33.0 kV/mm	838 kV/in	IEC 60243-1
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Dissipation Factor	0.0022	0.0022	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0138	0.0138	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	275 V	275 V	d.a.m.; Solution A; IEC 60112

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)44	

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