

## Lanxess Pocan® DP 7102 000000 PBT, 32% Mineral

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Mineral Filled

### Material Notes:

PBT, 32% mineral, injection molding, LDSInformation provided by LANXESS.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lanxess-Pocan-DP-7102-000000-PBT-32-Mineral.php](http://www.lookpolymers.com/polymer_Lanxess-Pocan-DP-7102-000000-PBT-32-Mineral.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.57 g/cc	1.57 g/cc	ISO 1183
Bulk Density	0.900 g/cc	0.0325 lb/in <sup>3</sup>	ISO 60
Viscosity Test	64 cm <sup>3</sup> /g	64 cm <sup>3</sup> /g	Viscosity number; ISO 1628-5
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	Post-shrinkage, 60x60x2; 120 <sup>o</sup> C; 4 hour; ISO 294-4
	0.014 cm/cm	0.014 in/in	60x60x2; 260 <sup>o</sup> C / MT 80 <sup>o</sup> C; 600 bar; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0010 cm/cm	0.0010 in/in	Post-shrinkage, 60x60x2; 120 <sup>o</sup> C; 4 hour; ISO 294-4
	0.014 cm/cm	0.014 in/in	60x60x2; 260 <sup>o</sup> C / MT 80 <sup>o</sup> C; 600 bar; ISO 294-4
Melt Flow	12 g/10 min	12 g/10 min	ISO 1133-1
	@Load 2.16 kg, Temperature 260 <sup>o</sup> C	@Load 4.76 lb, Temperature 500 <sup>o</sup> F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	ISO 527-1, -2; 5 mm/min
Elongation at Break	2.0 %	2.0 %	ISO 527-1, -2; 5 mm/min
Tensile Modulus	5.80 GPa	841 ksi	ISO 527-1, -2; 1 mm/min
Flexural Strength	95.0 MPa	13800 psi	2 mm/min; ISO 178-A
	@Strain 3.00 %	@Strain 3.00 %	
Flexural Modulus	6.40 GPa	928 ksi	2 mm/min; ISO 178-A
Izod Impact, Notched (ISO)	<= 10.0 kJ/m <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	ISO 180-1A
	@Temperature 23.0 <sup>o</sup> C	@Temperature 73.4 <sup>o</sup> F	
	<= 10.0 kJ/m <sup>2</sup>	<= 4.76 ft-lb/in <sup>2</sup>	ISO 180-1A
	@Temperature -30.0 <sup>o</sup> C	@Temperature -22.0 <sup>o</sup> F	

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched (ISO)	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ISO 180-1U
	30.0 kJ/mÂ² @Temperature 23.0 Â°C	14.3 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 180-1U
Charpy Impact Unnotched	3.50 J/cmÂ² @Temperature 23.0 Â°C	16.7 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179-1eU
	3.53 J/cmÂ² @Temperature -30.0 Â°C	16.8 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179-1eU
Charpy Impact, Notched	<= 1.00 J/cmÂ² @Temperature 23.0 Â°C	<= 4.76 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179-1eA
	<= 1.00 J/cmÂ² @Temperature -30.0 Â°C	<= 4.76 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179-1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 Âµm/m-Â°C @Temperature 23.0 - 55.0 Â°C	38.9 Âµin/in-Â°F @Temperature 73.4 - 131 Â°F	ISO 11359-1, -2
	90.0 Âµm/m-Â°C @Temperature 23.0 - 55.0 Â°C	50.0 Âµin/in-Â°F @Temperature 73.4 - 131 Â°F	ISO 11359-1, -2
Melting Point	225 Â°C	437 Â°F	10Â°C/min; ISO 11357-1, -3
Deflection Temperature at 0.46 MPa (66 psi)	195 Â°C	383 Â°F	ISO 75-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	115 Â°C	239 Â°F	ISO 75-1, -2
Vicat Softening Point	190 Â°C @Load 5.10 kg	374 Â°F @Load 11.2 lb	120Â°C/hour; ISO 306
	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
	3.7	3.7	IEC 60250
Dissipation Factor	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
	0.0149	0.0149	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	IEC 60250
	0.032	0.032	IEC 60250

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 270 Â°C	482 - 518 Â°F	
	260 Â°C	500 Â°F	for test specimens; ISO 294
Mold Temperature	80.0 Â°C	176 Â°F	for test specimens; ISO 294
	80.0 - 100 Â°C	176 - 212 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, GHMR, 09-060, MD32	

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