

SABIC Innovative Plastics LNP FARADEx DX11003 PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP FARADEx DX11003 is a compound based on Polycarbonate resin potentially suitable to meet high frequency electromagnetic absorption requirements. The compound is also an excellent candidate for many ESD applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-FARADEx-DX11003-PC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ASTM D792
Water Absorption	0.25 %	0.25 %	ISO 62-1
	@Time 86400 sec	@Time 24.0 hour	
Moisture Absorption	0.140 %	0.140 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0084 cm/cm	0.0084 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0082 cm/cm	0.0082 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.0 MPa	7690 psi	5 mm/min; ISO 527
	56.0 MPa	8120 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	60.0 MPa	8700 psi	5 mm/min; ISO 527
	62.0 MPa	8990 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	8.8 %	8.8 %	5 mm/min; ISO 527
	9.5 %	9.5 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	4.4 %	4.4 %	5 mm/min; ISO 527
	4.9 %	4.9 %	Type I, 5 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
	2.90 GPa	421 ksi	1 mm/min; ISO 527
Flexural Strength	102 MPa	14800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	102 MPa	14800 psi	2 mm/min; ISO 178
Flexural Modulus	2.89 GPa	419 ksi	1.3 mm/min, 50 mm span; ASTM D790
	3.10 GPa	450 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM D256
Izod Impact, Unnotched	12.17 J/cm	22.80 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	98.0 kJ/m ²	46.6 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J	5.90 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	138 °C @Thickness 3.20 mm	280 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	127 °C	261 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	127 °C @Thickness 3.20 mm	261 °F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	ASTM D257

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