

SABIC Innovative Plastics LNP COLORCOMP J1000AE PES

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

LNP* COLORCOMP* J1000AE is an unfilled Polyethersulfone. Added feature of this grade is: Easy Molding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-COLORCOMP-J1000AE-PES.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.37 g/cc	1.37 g/cc	ASTM D792
Moisture Absorption	0.500 %	0.500 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	88.0 MPa	12800 psi	Type I, 5 mm/min; ASTM D638
Elongation at Yield	6.5 %	6.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.69 GPa	390 ksi	50 mm/min; ASTM D638
Flexural Strength	125 MPa	18100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.62 GPa	380 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	52.0 $\mu\text{m/m-}^{\circ}\text{C}$	28.9 $\mu\text{in/in-}^{\circ}\text{F}$	ASTM D696
	@Temperature -30.0 - 30.0 $^{\circ}\text{C}$	@Temperature -22.0 - 86.0 $^{\circ}\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	200 $^{\circ}\text{C}$	392 $^{\circ}\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.75e+15 ohm-cm	1.75e+15 ohm-cm	ASTM D257

Electrical Properties Dissipation Factor	0.0017 Metric	0.0017 English	Comments ASTM D150
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
	0.0022	0.0022	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0056	0.0056	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

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