

SABIC Innovative Plastics LNP Stat-kon DEL369E PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Stat-Kon* DEL369E is a compound based on Polycarbonate containing Carbon Fiber and PTFE. Characteristics of this grade are Flame Retardant and Statically Conductive. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Stat-kon-DEL369E-PC.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ISO 1183
	1.479 g/cc	0.05343 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.12 %	0.12 %	23 ^o C / 50% RH; ISO 62
	0.10 % @Time 86400 sec	0.10 % @Time 24.0 hour	50% RH; ASTM D 570

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	132 MPa	19100 psi	5 mm/min; ISO 527
	133 MPa	19300 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	132 MPa	19100 psi	5 mm/min; ISO 527
	133 MPa	19300 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	1.0 %	1.0 %	5 mm/min; ISO 527
	1.2 %	1.2 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	1.0 %	1.0 %	5 mm/min; ISO 527
	1.2 %	1.2 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	21.84 GPa	3168 ksi	1 mm/min; ISO 527
	22.6 GPa	3280 ksi	50 mm/min; ASTM D 638
Flexural Strength	195 MPa	28300 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	15.76 GPa	2286 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	17.21 GPa	2496 ksi	2 mm/min; ISO 178
	0.580 J/cm	1.09 ft-lb/in	

Izod Impact, Notched Mechanical Properties	Metric @Temperature 23.0 Â°C	English @Temperature 73.4 Â°F	ASTM D 256 Comments
Izod Impact, Unnotched	4.08 J/cm @Temperature 23.0 Â°C	7.64 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	6.00 kJ/mÂ² @Temperature 23.0 Â°C	2.86 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	24.0 kJ/mÂ² @Temperature 23.0 Â°C	11.4 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	152 Â°C	306 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	149 Â°C @Thickness 3.20 mm	300 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	146 Â°C	295 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	143 Â°C @Thickness 3.20 mm	289 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Electrical Properties	Metric	English	Comments
Surface Resistance	10 - 10000 ohm	10 - 10000 ohm	ASTM D 257

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