

SABIC Innovative Plastics LNP STAT-KON Cycoloy_JK800 PC+ABS

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Carbon Fiber Filled , Polycarbonate (PC)

Material Notes:

LNP* Stat-kon* Cycoloy_JK800 compound is an 8% carbon fiber reinforced PC+ABS, electrostatic dissipative ECO conforming FR. Good hydrolytic stability.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-CycoloyJK800-PCABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	17 g/10 min	17 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 260 Â°C	@Load 4.76 lb, Temperature 500 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	95.0 MPa	13800 psi	5 mm/min; ISO 527
	96.0 MPa	13900 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	95.0 MPa	13800 psi	5 mm/min; ISO 527
	96.0 MPa	13900 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.9 %	1.9 %	Type I, 5 mm/min; ASTM D638
	1.9 %	1.9 %	5 mm/min; ISO 527
Elongation at Yield	1.9 %	1.9 %	Type I, 5 mm/min; ASTM D638
	1.9 %	1.9 %	5 mm/min; ISO 527
Tensile Modulus	7.50 GPa	1090 ksi	1 mm/min; ISO 527
	7.58 GPa	1100 ksi	5 mm/min; ASTM D638
Flexural Strength	144 MPa	20900 psi	1.3 mm/min, 50 mm span; ASTM D790
	145 MPa	21000 psi	2 mm/min; ISO 178

Flexural Yield Strength Mechanical Properties	145 MPa Metric	21000 psi English	2 mm/min; ISO 178 Comments
Flexural Modulus	6.20 GPa	899 ksi	1.3 mm/min, 50 mm span; ASTM D790
	6.38 GPa	925 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.47 J/cm	6.50 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	21.0 kJ/m ²	9.99 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	82.0 J @Temperature 23.0 Â°C	60.5 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.2 Âµm/m-Â°C	14.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	26.0 Âµm/m-Â°C	14.4 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 80.0 Â°C	@Temperature 73.4 - 176 Â°F	
CTE, linear, Transverse to Flow	64.8 Âµm/m-Â°C	36.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	74.0 Âµm/m-Â°C	41.1 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 80.0 Â°C	@Temperature 73.4 - 176 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	97.0 Â°C	207 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	92.0 Â°C	198 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	94.0 Â°C	201 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	101 Â°C	214 Â°F	Rate B/120; ISO 306
	111 Â°C	232 Â°F	Rate B/50; ASTM D1525
UL RTI, Electrical	60.0 Â°C	140 Â°F	UL 746B

Thermal Properties <i>with Impact</i>	Metric °C	English	Comments
UL RTI, Mechanical without Impact	60.0 °C	140 °F	UL 746B
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 0.990 mm	@Thickness 0.0390 in	
	5VB	5VB	UL 94
	@Thickness 1.49 mm	@Thickness 0.0587 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1000 ohm-cm	1000 ohm-cm	ASTM D257
Surface Resistance	1.00e+6 ohm	1.00e+6 ohm	ASTM D257
Static Decay	0.010 sec	0.010 sec	5000V to <50V; FTMS101B

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