



LNP™ THERMOCOMP™ Compound LC008EXQ

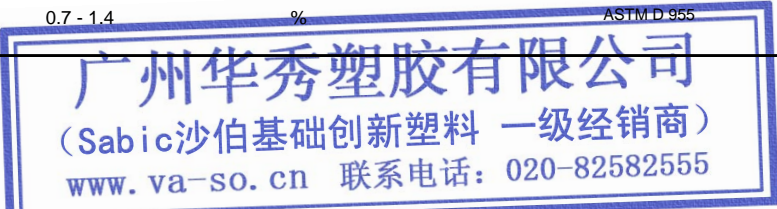
Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound LC008EXQ

Product reorder name: LC008EXQ

LNP* THERMOCOMP* LC008EXQ is a compound based on Polyetheretherketone containing 40% Carbon Fiber. Added features of this grade include: Electrically Conductive, Easy Molding.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	3360	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.5	%	ASTM D 638
Tensile Modulus, 5 mm/min	422900	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	5010	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	358900	kgf/cm ²	ASTM D 790
Tensile Stress, break, 5 mm/min	321	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.4	%	ISO 527
Tensile Modulus, 1 mm/min	40420	MPa	ISO 527
Flexural Stress	460	MPa	ISO 178
Flexural Modulus, 2 mm/min	33820	MPa	ISO 178
Compressive Strength	215	MPa	SABIC Method
Shear Strength	1284	kgf/cm ²	ASTM C 273
Shear Modulus	51010	kgf/cm ²	ASTM C 273
IMPACT			
Izod Impact, unnotched, 23°C	88	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	8	cm-kgf/cm	ASTM D 256
Instrumented Impact Total Energy, 23°C	73	cm-kgf	ASTM D 3763
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	335	°C	ASTM D 648
PHYSICAL			
Specific Gravity	1.44	-	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.05	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.15 - 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.7 - 1.4	%	ASTM D 955



(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

Source GMD, last updated:

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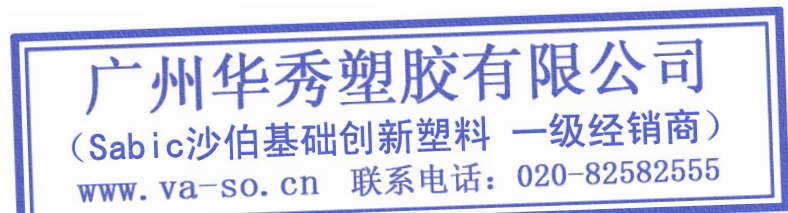
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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
ELECTRICAL			
Surface Resistivity	1.E+02 - 1.E+03	Ohm	ASTM D 257



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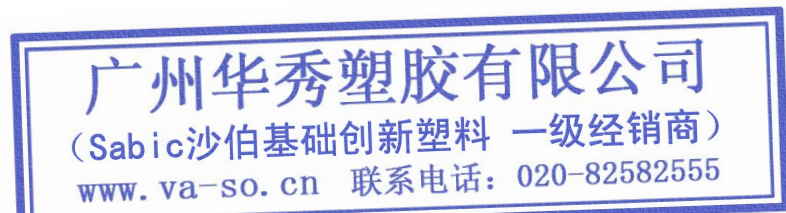
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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120 - 150	°C
Drying Time	4	hrs
Maximum Moisture Content	0.1	%
Melt Temperature	380 - 390	°C
Front - Zone 3 Temperature	380 - 395	°C
Middle - Zone 2 Temperature	365 - 375	°C
Rear - Zone 1 Temperature	350 - 360	°C
Mold Temperature	140 - 165	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	60 - 100	rpm



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