+135-3858-6433 (GuangDong)
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LNP™ THERMOCOMP™ Compound EC006PXQ

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound EC006PXQ
Product reorder name: EC006PXQ

LNP™ THERMOCOMP™ EC006PXQ is a compound based on Polyetherimide containing 30% Carbon Fiber. Added features include: Electrically Conductive, Easy Molding.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	2770	kgf/cm²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.3 - 1.4	%	ASTM D 638
Tensile Modulus, 5 mm/min	301000	kgf/cm²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	3470	kgf/cm²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	242600	kgf/cm²	ASTM D 790
Tensile Stress, break, 5 mm/min	248	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.2	%	ISO 527
Tensile Modulus, 1 mm/min	27560	MPa	ISO 527
Flexural Strain, break, 2 mm/min	334	%	ISO 178
Flexural Modulus, 2 mm/min	23060	MPa	ISO 178
Compressive Strength	244	MPa	SABIC Method
Shear Strength	1305	kgf/cm²	ASTM C 273
Shear Modulus	48190	kgf/cm²	ASTM C 273
IMPACT			
Izod Impact, unnotched, 23°C	59	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	8	cm-kgf/cm	ASTM D 256
Instrumented Impact Total Energy, 23°C	125	cm-kgf	ASTM D 3763
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	195	°C	ASTM D 648
CTE, -40°C to 150°C, flow	7.2E-06	1/°C	ASTM E 831
CTE, -40°C to 150°C, xflow	5.8E-05	1/°C	ASTM E 831
PHYSICAL			
Specific Gravity	1.39	-	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.11	%	ASTM D 570

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TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
PHYSICAL			
Mold Shrinkage, flow, 24 hrs (5)	0.03 - 0.1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.1 - 0.6	%	ASTM D 955
Melt Flow Rate, 380°C/6.7 kgf	22	g/10 min	ASTM D 1238
ELECTRICAL			
Surface Resistivity	1.E+03	Ohm	ASTM D 257

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120 - 150	°C
Drying Time	4	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	380 - 400	°C
Front - Zone 3 Temperature	380 - 400	°C
Middle - Zone 2 Temperature	380 - 400	°C
Rear - Zone 1 Temperature	380 - 400	°C
Mold Temperature	165 - 180	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	50 - 100	rpm