



LNP™ THERMOCOMP™ Compound EC008APQ

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound EC008APQ

Product reorder name: EC008APQ

LNP THERMOCOMP EC008APQ is a compound based on Polyetherimide containing 40% Carbon Fiber. Added features of this material include: Electrically Conductive, High Flow.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	2730	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1	%	ASTM D 638
Tensile Modulus, 5 mm/min	401900	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	3630	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	319100	kgf/cm ²	ASTM D 790
Hardness, Rockwell M	112	-	ASTM D 785
Tensile Stress, break, 5 mm/min	247	MPa	ISO 527
Tensile Strain, break, 5 mm/min	0.9	%	ISO 527
Tensile Modulus, 1 mm/min	35480	MPa	ISO 527
Flexural Stress	364	MPa	ISO 178
Flexural Modulus, 2 mm/min	30560	MPa	ISO 178
Compressive Strength	218	MPa	SABIC Method
Shear Strength	1223	kgf/cm ²	ASTM C 273
Shear Modulus	47470	kgf/cm ²	ASTM C 273
IMPACT			
Izod Impact, unnotched, 23°C	57	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	6	cm-kgf/cm	ASTM D 256
Instrumented Impact Total Energy, 23°C	74	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	33	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	6	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	193	°C	ASTM D 648
CTE, -40°C to 150°C, flow	3.E-06	1/°C	ASTM E 831



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
CTE, -40°C to 150°C, xflow	4.E-05	1/°C	ASTM E 831
PHYSICAL			
Specific Gravity	1.44	-	ASTM D 792
Density	1.433	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.11	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.01 - 0.05	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.1 - 0.5	%	ASTM D 955
Melt Flow Rate, 380°C/6.7 kgf	40	g/10 min	ASTM D 1238
ELECTRICAL			
Volume Resistivity	4.1E+03	Ohm-cm	ASTM D 257
Surface Resistivity	4.5E+02	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