



LNP™ THERMOCOMP™ Compound EX11414

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound EX11414

Product reorder name: EX11414

LNP™ THERMOCOMP™ EX11414 is a compound based on Polyetherimide containing 20% Carbon Fiber.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	2340	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.8	%	ASTM D 638
Tensile Modulus, 5 mm/min	177200	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	3140	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	148800	kgf/cm ²	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	60	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	7	cm-kgf/cm	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	213	°C	ASTM D 648
PHYSICAL			
Specific Gravity	1.33	-	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.23	%	ASTM D 570
ELECTRICAL			
Surface Resistivity	1.E+04 - 1.E+05	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

