LNP™ THERMOCOMP™ COMPOUND LX09404

LX09404

DESCRIPTION

LNP THERMOCOMP LX09404 compound is based on Polyetheretherketone (PEEK) resin containing 45% carbon fiber. Added features of this grade include: Electrically Conductive, High Modulus

GENERAL INFORMATION	
Features	Electrically Conductive, Carbon fiber filled, High stiffness/Strength, High temperature resistance, No PFAS intentionally added
Fillers	Carbon Fiber
Polymer Types	Polyetheretherketone (PEEK)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Consumer	Commercial Appliance
Electrical and Electronics	Electronic Components, Mobile Phone - Computer - Tablets
Industrial	Electrical, Material Handling

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, brk, Type I, 5 mm/min	280	MPa	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	1.3	%	ASTM D638
Tensile Modulus, 5 mm/min	41500	MPa	ASTM D638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	424	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	29650	MPa	ASTM D790
IMPACT [1]			
Izod Impact, unnotched, 23°C	828	J/m	ASTM D4812
Izod Impact, notched, 23°C	93	J/m	ASTM D256
THERMAL [1]			
HDT, 1.82 MPa, 3.2mm, unannealed	332	°C	ASTM D648
PHYSICAL [1]			
Specific Gravity	1.47	-	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.41	%	ASTM D570
INJECTION MOLDING [2]			
Drying Temperature	150	°C	
Drying Time	4 – 6	Hrs	
Front - Zone 3 Temperature	380 – 400	°C	
Middle - Zone 2 Temperature	380 – 400	°C	
Rear - Zone 1 Temperature	370 – 380	°C	
Mold Temperature	175 – 190	°C	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	60 – 100	rpm	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.