LNP™ THERMOCOMP™ COMPOUND RC00A

RC-100-10

DESCRIPTION

LNP THERMOCOMP RC00A is a compound based on PA6.6 resin containing Carbon Fiber. Added features include: Electrically Conductive

TYPICAL PROPERTY VALUES

Revision 20191213

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break, 5 mm/min	238	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1	%	ISO 527
Tensile Modulus, 1 mm/min	33400	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	331	MPa	ISO 178
Flexural Modulus, 2 mm/min	24000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched 80*10*4 +23°C	35	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	10	kJ/m²	ISO 180/1A
THERMAL			
CTE, 23°C to 60°C, flow	1.6E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	6.3E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	254	°C	ISO 75/Af
PHYSICAL			
Mold Shrinkage, flow	0.05 – 0.15	%	SABIC method
Density	1.37	g/cm³	ISO 1183
ELECTRICAL			
Surface Resistivity	1.E+01 – 1.E+02	Ohm	ASTM D 257
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4 – 6	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	255 – 290	°C	
Front - Zone 3 Temperature	260 – 270	°C	
Middle - Zone 2 Temperature	255 – 265	°C	
Rear - Zone 1 Temperature	250 – 260	°C	
Mold Temperature	40 – 65	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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