

LNP™ THERMOCOMP™ RX10405H compound

Polyamide 66
SABIC Innovative Plastics

Message:

LNP THERMOCOMP RX10405H is a compound based on Nylon 66 resin containing Carbon Fiber. Added feature of this material is: Healthcare.

Also known as: LNP* THERMOCOMP* Compound RX10405H

Product reorder name: RX10405H

General Information			
Filler / Reinforcement	Carbon Fiber		
Uses	Medical/Healthcare Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	31000	MPa	ASTM D638
Tensile Strength ² (Break)	276	MPa	ASTM D638
Tensile Elongation ³ (Break)	1.6	%	ASTM D638
Flexural Modulus ⁴ (50.0 mm Span)	24400	MPa	ASTM D790
Flexural Strength ⁵ (Break, 50.0 mm Span)	386	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	256	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.15 to 0.25	%	
Rear Temperature	266 to 277	°C	
Middle Temperature	282 to 293	°C	
Front Temperature	293 to 304	°C	
Processing (Melt) Temp	282 to 304	°C	
Mold Temperature	93.3 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	5.0 mm/min		
2.	Type I, 5.0 mm/min		

3.	Type I, 5.0 mm/min
4.	1.3 mm/min
5.	1.3 mm/min

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Recommended distributors for this material

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