+135-3858-6433 (GuangDong)
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LNP™ THERMOCOMP™ Compound RC003SXS
Europe-Africa-Middle East: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound RC-1003 HS
Product reorder name: RC003SXS

LNP THERMOCOMP RC003SXS is a compound based on PA 66 resin containing Carbon fiber. Added features include: Electrically Conductive, Heat Stabilized

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break, 5 mm/min	170	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2	%	ISO 527
Tensile Modulus, 1 mm/min	13000	MPa	ISO 527
Flexural Stress, break, 2 mm/min	230	MPa	ISO 178
Flexural Modulus, 2 mm/min	10000	MPa	ISO 178
Hardness, Rockwell L	105	-	ISO 2039-2
IMPACT			
Izod Impact, notched 80*10*4 +23°C	5	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*4 -20°C	4	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*4 -40°C	3	kJ/m²	ISO 180/1A
Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm	45	kJ/m²	ISO 179/1eU
THERMAL			
CTE, 23°C to 60°C, flow	2.E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	1.1E-04	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/120	255	°C	ISO 306
HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm	252	°C	ISO 75/Be
HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm	250	°C	ISO 75/Ae
PHYSICAL			
Mold Shrinkage on Tensile Bar, flow (2) (5)	0.1 - 0.2	%	SABIC Method
Density	1.19	g/cm³	ISO 1183
Water Absorption, (23°C/sat)	5.5	%	ISO 62
ELECTRICAL			
Volume Resistivity	1.78E+05	Ohm-cm	IEC 60093
Surface Resistivity, ROA	1.78E+05	Ohm	IEC 60093
FLAME CHARACTERISTICS			
UL Compliant, 94HB Flame Class Rating (3)(4)	1.6	mm	UL 94 by SABIC-IP

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TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
FLAME CHARACTERISTICS			
Oxygen Index (LOI)	28	%	ISO 4589

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	2 - 4	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	320 - 360	°C
Nozzle Temperature	280 - 320	°C
Front - Zone 3 Temperature	320 - 360	°C
Middle - Zone 2 Temperature	320 - 360	°C
Rear - Zone 1 Temperature	280 - 320	°C
Hopper Temperature	60 - 90	°C
Mold Temperature	80 - 100	°C