LNP™ THERMOCOMP™ COMPOUND RB00A

RB-100-10

DESCRIPTION

50% glass beads filled Polyamide 66 injection moulding resin.

TYPICAL PROPERTY VALUES

Revision 20191213

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break, 5 mm/min	85	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2.5	%	ISO 527
Tensile Modulus, 1 mm/min	6200	MPa	ISO 527
Flexural Stress, break, 2 mm/min	140	MPa	ISO 178
Flexural Modulus, 2 mm/min	6000	MPa	ISO 178
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	30	kJ/m²	ISO 179/1eU
THERMAL			
CTE, 23°C to 60°C, flow	3.E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	3.E-05	1/°C	ISO 11359-2
Vicat Softening Temp, Rate A/50	255	°C	ISO 306
HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm	245	°C	ISO 75/Be
HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm	175	°C	ISO 75/Ae
PHYSICAL			
Mold Shrinkage on Tensile Bar, flow	0.5 – 0.8	%	SABIC method
Density	1.56	g/cm³	ISO 1183
Water Absorption, (23°C/sat)	4.5	%	ISO 62
ELECTRICAL			
Comparative Tracking Index	500	V	IEC 60112
Comparative Tracking Index, M	400	V	IEC 60112
FLAME CHARACTERISTICS			
UL Compliant, 94HB Flame Class Rating	1.6	mm	UL 94 by SABIC-IP
INJECTION MOLDING			
Drying Temperature	75 – 85	°C	
Drying Time	4 – 6	hrs	
Maximum Moisture Content	0.2	%	
Melt Temperature	260 – 290	°C	
Nozzle Temperature	250 – 270	°C	
Front - Zone 3 Temperature	260 – 280	°C	
Middle - Zone 2 Temperature	260 – 280	°C	
Rear - Zone 1 Temperature	270 – 290	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Hopper Temperature	60 – 80	°C	
Mold Temperature	70 – 120	°C	

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