LNP™ THERMOCOMP™ COMPOUND GZ004-GY4E009

DESCRIPTION

LNP™ THERMOCOMP™ GZ004 is a compound based on Polysulfone resin containing 20% milled Glass. Added features include: Custom Color GREY

TYPICAL PROPERTY VALUES

Revision 20191218

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Modulus, 1 mm/min	3700	MPa	ISO 527
Tensile Stress, yield, 5 mm/min	57	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	3.6	%	ISO 527
Tensile Nominal Strain, break, 5 mm/min	5	%	ISO 527
Flexural Modulus, 2 mm/min	3600	MPa	ISO 178
Flexural Stress, break, 2 mm/min	104	MPa	ISO 178
IMPACT			
Izod Impact, notched 80*10*4 +23°C	5	kJ/m²	ISO 180/1A
Izod Impact, unnotched 80*10*4 +23°C	40	kJ/m²	ISO 180/1U
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	7	kJ/m²	ISO 179/1eA
Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm	55	kJ/m²	ISO 179/1eU
THERMAL			
Vicat Softening Temp, Rate B/50	186	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	170	°C	ISO 75/Af
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	181	°C	ISO 75/Bf
CTE, -40°C to 40°C, flow	4.9E-5	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	5.2E-5	1/°C	ASTM E 831
PHYSICAL			
Density	1.38	g/cm³	ISO 1183
Mold Shrinkage, flow	0.5 – 0.7	%	SABIC method
Mold Shrinkage, xflow	0.4 – 0.6	%	SABIC method
Moisture Absorption, 50% RH, Equilibrium	0.1 – 0.3	%	ISO 62-4
Water Absorption, (23°C/sat)	0.5 – 0.6	%	ISO 62
FLAME CHARACTERISTICS			
UL Yellow Card Link	E45329-101343831	-	-
UL Recognized, 94V-2 Flame Class Rating	1.5	mm	UL 94
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.05	%	
Melt Temperature	360 – 370	°C	
Rear - Zone 1 Temperature	325 – 340	°C	
Middle - Zone 2 Temperature	340 – 350	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Front - Zone 3 Temperature	350 – 360	°C	
Nozzle Temperature	340 – 370	°C	
Mold Temperature	150	°C	
Back Pressure	0.2 – 0.3	MPa	

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