LNP* Thermocomp* Compound WH0420A_GY5A749



Americas: COMMERCIAL

4.2 specific gravity, PBT, gray

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yld, Type I, 5 mm/min	27	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	26	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	12.2	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	18.6	%	ASTM D 638
Tensile Modulus, 50 mm/min	1930	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	50	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	1910	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	27	MPa	ISO 527
Tensile Stress, break, 5 mm/min	25	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	8.4	%	ISO 527
Tensile Strain, break, 5 mm/min	9.7	%	ISO 527
Tensile Modulus, 1 mm/min	1800	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	46	MPa	ISO 178
Flexural Modulus, 2 mm/min	1840	MPa	ISO 178
ІМРАСТ	Value	Unit	Standard
Izod Impact, unnotched, 23°C	1180	J/m	ASTM D 4812
Izod Impact, notched, 23°C	117	J/m	ASTM D 256
Instrumented Impact Total Energy, 23°C	16	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	78	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	10	kJ/m²	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 1.82 MPa, 3.2mm, unannealed	51	°C	ASTM D 648
CTE, -30°C to 30°C, flow	9.24E+01	1/°C	ASTM E 831
CTE, -30°C to 30°C, xflow	9.49E+01	1/°C	ASTM E 831
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	53	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Density	4.2	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.05	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	1.6 - 1.8	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.4 - 1.6	%	ASTM D 955
Density	4.2	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.07	%	ISO 62

Processing

Source GMD, last u	updated:11/19/2008
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Parameter		
Injection Molding	Value	Unit

	°C
4	hrs
0.05	%
240 - 265	С
260 - 270	С
245 - 255	С
220 - 230	C°
80 - 100	С
0.2 - 0.3	MPa
30 - 60	rpm
	0.05 240 - 265 260 - 270 245 - 255 220 - 230 80 - 100 0.2 - 0.3

Source GMD, last updated:11/19/2008

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR (LOCAL SALES OFFICE) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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