SABIC Innovative Plastics™

LNP* Thermocomp* Compound ZM3242 Asia Pacific: COMMERCIAL

Modified PPO* 30% mineral filled products, Non Halogenated Flame Retardant V-1 products.Supper low warpage series, HDT 110degC

Property

TYPICAL PROPERTIES (1)			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yld, Type I, 5 mm/min	0	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	65	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	0	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	6	%	ASTM D 638
Tensile Modulus, 5 mm/min	0	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	104	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	5770	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	0	MPa	ISO 527
Tensile Stress, break, 5 mm/min	0	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	0	%	ISO 527
Tensile Strain, break, 5 mm/min	0	%	ISO 527
Tensile Modulus, 1 mm/min	0	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	0	MPa	ISO 178
Flexural Modulus, 2 mm/min	0	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, notched, 23°C	23	J/m	ASTM D 256
Izod Impact, notched, -30°C	0	J/m	ASTM D 256
Instrumented Impact Total Energy, 23°C	0	J	ASTM D 3763
Izod Impact, notched 80*10*4 +23°C	0	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	0	kJ/m²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	0	kJ/m²	ISO 179/1eA
THERMAL	Value	Unit	Standard
Vicat Softening Temp, Rate B/50	0	°C	ASTM D 1525
HDT, 1.82 MPa, 3.2mm, unannealed	110	°C	ASTM D 648
CTE, -40°C to 40°C, flow	4.E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	5.1E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	0.E+00	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	0.E+00	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/50	0	°C	ISO 306
Vicat Softening Temp, Rate B/120	0	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	0	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Specific Gravity	1.35	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm	0.4 - 0.4	%	SABIC Method
Melt Flow Rate, 300°C/2.16 kgf	27	g/10 min	ASTM D 1238
Density	0	g/cm³	ISO 1183
Water Absorption, (23°C/sat)	0	%	ISO 62
Moisture Absorption (23°C / 50% RH)	0	%	ISO 62
Melt Volume Rate, MVR at 300°C/2.16 kg	0	cm³/10 min	ISO 1133

FLAME CHARACTERISTICS	Value	Unit	Standard
UL Compliant, 94V-1 Flame Class Rating (3)(4)	1.5	mm	UL 94 by GE

Source GMD, last updated:2006/08/22

Processing

Parameter Injection Molding	Value	Unit
Drying Temperature	90 - 100	°C
Drying Time	2 - 4	hrs
Melt Temperature	280 - 300	°C
Nozzle Temperature	280 - 300	°C
Front - Zone 3 Temperature	280 - 300	°C
Middle - Zone 2 Temperature	270 - 290	°C
Rear - Zone 1 Temperature	260 - 280	°C
Mold Temperature	70 - 90	°C

Source GMD, last updated:2006/08/22

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.