SABIC Innovative Plastics™

LNP* Thermocomp* Compound 9X04488 Americas: COMMERCIAL

Also known as: PDX-04488
Product Reorder Name: 9X04488

LNP* Thermocomp* 9X04488 is a compound based on POLYPHENYLENESULFONE resin containing Mineral.

Property

TYPICAL PROPERTIES (1)			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yield	74	MPa	ASTM D 638
Tensile Stress, break	59	MPa	ASTM D 638
Tensile Strain, yield	8.2	%	ASTM D 638
Tensile Strain, break	19.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	2280	MPa	ASTM D 638
Flexural Stress	96	MPa	ASTM D 790
Flexural Modulus	2460	MPa	ASTM D 790
Tensile Stress, yield	69	MPa	ISO 527
Tensile Stress, break	NB	MPa	ISO 527
Tensile Strain, yield	7.7	%	ISO 527
Tensile Strain, break	NB	%	ISO 527
Tensile Modulus, 1 mm/min	2120	MPa	ISO 527
Flexural Stress	71	MPa	ISO 178
Flexural Modulus	2090	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	2563	J/m	ASTM D 4812
Izod Impact, notched, 23°C	363	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	51	J	ASTM D 3763
Multiaxial Impact	59	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	NB	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	14	kJ/m²	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 1.82 MPa, 3.2mm, unannealed	200	°C	ASTM D 648
CTE, -40°C to 40°C, flow	5.4E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	5.22E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	5.33E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	5.24E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	195	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Density	1.31	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.3	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	9 - 1.1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1 - 1.2	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.9 - 1.1	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1 - 1.2	%	ISO 294
Density	1.31	g/cm³	ISO 1183

Source GMD, last updated:02/14/2006

Processing

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.