LNP™ THERMOCOMP™ COMPOUND 9X10401H

9X10401H

DESCRIPTION

LNP* THERMOCOMP* 9X10401H is a compound based on Polyphenylsulfone containing proprietary filler(s). Added feature of this grade is: X-Ray Opaque.

TYPICAL PROPERTY VALUES

Revision 20191210

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	72	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	57	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	7	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	12	%	ASTM D 638
Tensile Modulus, 5 mm/min	2660	MPa	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span	2720	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	71	MPa	ISO 527
Tensile Stress, break, 5 mm/min	57	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	7	%	ISO 527
Tensile Strain, break, 5 mm/min	12	%	ISO 527
Tensile Modulus, 1 mm/min	2550	MPa	ISO 527
Flexural Modulus, 2 mm/min	2570	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	1640	J/m	ASTM D 4812
Izod Impact, notched, 23°C	86	J/m	ASTM D 256
Multiaxial Impact	29	J	ISO 6603
Instrumented Impact Total Energy, 23°C	34	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	175	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	8	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	214	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	203	°C	ASTM D 648
CTE, -30°C to 30°C, flow	5.3E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	5.3E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	213	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	200	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.46	-	ASTM D 792
Density	1.45	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.26	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.8 – 1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1 – 3	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.47	%	ISO 62

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