LNP™ THERMOCOMP™ COMPOUND 9X06482

STN-F-1006 HS

DESCRIPTION

LNP* THERMOCOMP* 9X06482 is a compound based on Nylon 4/6 resin containing 30% Glass Fiber. Added feaure of this grade is: Heat Stabilized.

TYPICAL PROPERTY VALUES

Revision 20191216

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	169	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	168	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	3.5	%	ASTM D 638
Tensile Modulus, 5 mm/min	9530	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	256	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	8240	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min	165	MPa	ISO 527
Tensile Strain, break, 5 mm/min	3.5	%	ISO 527
Tensile Modulus, 1 mm/min	9200	MPa	ISO 527
Flexural Stress	253	MPa	ISO 178
Flexural Modulus, 2 mm/min	7930	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	857	J/m	ASTM D 4812
Izod Impact, notched, 23°C	71	J/m	ASTM D 256
Multiaxial Impact	2	J	ISO 6603
Instrumented Impact Total Energy, 23°C	6	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	51	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	289	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	286	°C	ASTM D 648
CTE, -30°C to 30°C, flow	2.5E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	6.7E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	290	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	286	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.4	-	ASTM D 792
Density	1.4	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	1.5	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.58	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.8	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	2.2	%	ISO 62

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