

LNP™ COLORCOMP™ COMPOUND JX91550

PDX-J-91550
REGION ASIA

DESCRIPTION

LNP COLORCOMP* JX91550 is an unfilled Polyethersulfone.

TYPICAL PROPERTY VALUES

Revision 20170816

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	77	MPa	ASTM D 638
Tensile Stress, break	58	MPa	ASTM D 638
Tensile Strain, yield	5.6	%	ASTM D 638
Tensile Strain, break	13.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	2930	MPa	ASTM D 638
Flexural Stress	122	MPa	ASTM D 790
Tensile Stress, yield	78	MPa	ISO 527
Tensile Stress, break	53	MPa	ISO 527
Tensile Strain, yield	6.2	%	ISO 527
Tensile Strain, break	23.4	%	ISO 527
Tensile Modulus, 1 mm/min	2830	MPa	ISO 527
Flexural Stress	118	MPa	ISO 178
Flexural Modulus	2920	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	NB	J/m	ASTM D 4812
Izod Impact, notched, 23°C	53	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	19	J	ASTM D 3763
Multiaxial Impact	32	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	NB	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	176	°C	ASTM D 648
CTE, -40°C to 40°C, flow	5.05E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	5.14E-05	1/°C	ASTM E 831

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
CTE, -40°C to 40°C, flow	5.07E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	5.15E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	187	°C	ISO 75/Af
PHYSICAL			
Density	1.49	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.6 – 0.8	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.7 – 0.9	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.6 – 0.8	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.7 – 0.9	%	ISO 294
Density	1.49	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.76	%	ISO 62
MECHANICAL PROPERTIES			
Flexural modulus	2890	MPa	ISO 178/1A
INJECTION MOLDING			
Drying Temperature	120 – 150	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.05	%	
Melt Temperature	355 – 370	°C	
Front - Zone 3 Temperature	370 – 380	°C	
Middle - Zone 2 Temperature	360 – 370	°C	
Rear - Zone 1 Temperature	345 – 355	°C	
Mold Temperature	140 – 150	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	60 – 100	rpm	

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

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