LNP™ COLORCOMP™ COMPOUND JX91550

PDX-J-91550
REGION ASIA

DESCRIPTION

LNP COLORCOMP* JX91550 is an unfilled Polyethersulfone.

TYPICAL PROPERTY VALUES

Revision 20181219

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
Flexural Modulus	2890	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/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4	kJ/m²	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
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/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.6 – 0.8	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.7 – 0.9	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.6 – 0.8	%	ISO 294

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Shrinkage, xflow, 24 hrs	0.7 – 0.9	%	ISO 294
Density	1.49	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.76	%	ISO 62
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	

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