



LNP™ COLORCOMP™ Compound JX91550

Americas: COMMERCIAL

Also known as: LNP™ COLORCOMP™ Compound PDX-J-91550

Product reorder name: JX91550

LNP COLORCOMP* JX91550 is an unfilled Polyethersulfone.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	780	kgf/cm ²	ASTM D 638
Tensile Stress, break	590	kgf/cm ²	ASTM D 638
Tensile Strain, yield	5.6	%	ASTM D 638
Tensile Strain, break	13.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	29900	kgf/cm ²	ASTM D 638
Flexural Stress	1250	kgf/cm ²	ASTM D 790
Flexural Modulus	29500	kgf/cm ²	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	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	5	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	195	cm-kgf	ASTM D 3763
Multiaxial Impact	330	cm-kgf	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



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
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/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



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
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