SABIC Innovative Plastics™

LNP* Colorcomp* Compound JX91550 Americas: COMMERCIAL

Also known as: PDX-J-91550
Product Reorder Name: JX91550

LNP COLORCOMP* JX91550 is a compound based on Polyethersulfone resin containing Unfilled Custom Color.

Property

TYPICAL PROPERTIES (1)			
MECHANICAL	Value	Unit	Standard
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	Value	Unit	Standard
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	Value	Unit	Standard
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	Value	Unit	Standard
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
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

Source GMD, last updated:10/05/2004

Processing

Parameter Injection Molding	Value	Unit
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

Source GMD, last updated:10/05/2004

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR (LOCAL SALES OFFICE) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.
(2) Only typical data for selection purposes. Not to be used for part or tool design.
(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
(4) Internal measurements according to UL standards.