SABIC Innovative Plastics™

LNP* Stat-kon* Compound OEL13I

Americas: COMMERCIAL

Also known as: STAT-KON OCL-4013 HI
Product Reorder Name: OEL13I

LNP* OEL13I is a Linear-PPS base resin containing Carbon Fiber and PTFE Lubricant. Characteristics of this grade are High Impact.

Property

TYPICAL PROPERTIES (1)			
MECHANICAL	Value	Unit	Standard
Tensile Stress, brk, Type I, 5 mm/min	132	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	13950	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	195	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	10510	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min	130	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.4	%	ISO 527
Tensile Modulus, 1 mm/min	16590	MPa	ISO 527
Flexural Stress	218	MPa	ISO 178
Flexural Modulus, 2 mm/min	11920	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	601	J/m	ASTM D 4812
Izod Impact, notched, 23°C	93	J/m	ASTM D 256
Multiaxial Impact	3	J	ISO 6603
Instrumented Impact Total Energy, 23°C	16	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	35	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	8	kJ/m²	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 0.45 MPa, 3.2 mm, unannealed	273	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	213	°C	ASTM D 648
CTE, -30°C to 30°C, flow	1.4E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	6.E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	260	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	212	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Density	1.37	g/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.2 - 0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.7 - 0.9	%	ASTM D 955
Density	1.37	g/cm³	ISO 1183
ELECTRICAL	Value	Unit	Standard
Volume Resistivity	1.E+00 - 3.E+00	Ohm-cm	ASTM D 257
Surface Resistivity	2.E+00 - 4.E+00	Ohm	ASTM D 257
Surface Resistivity, ROA	1.E+00 - 3.E+00	Ohm	IEC 60093

Source GMD, last updated:11/25/2008

Processing

Parameter

Injection Molding	Value	Unit
Drying Temperature	120 - 150	°C
Drying Time	4	hrs
Melt Temperature	315 - 320	°C
Front - Zone 3 Temperature	330 - 345	°C
Middle - Zone 2 Temperature	320 - 330	°C
Rear - Zone 1 Temperature	305 - 315	°C
Mold Temperature	140 - 165	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

Source GMD, last updated:11/25/2008

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.