

## SABIC Innovative Plastics LNP Thermocomp R1000HI620 PA 66 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade

### Material Notes:

Impact modified Polyamide 66 injection moulding resin. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-Thermocomp-R1000HI620-PA-66-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-R1000HI620-PA-66-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	1.5 %	1.5 %	23 <sup>o</sup> C / 50% RH; ISO 62
Water Absorption at Saturation	5.5 % @Temperature 23.0 <sup>o</sup> C	5.5 % @Temperature 73.4 <sup>o</sup> F	ISO 62
Linear Mold Shrinkage, Flow	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	on tensile bar; SABIC Method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	112	112	ISO 2039-2
Tensile Strength, Yield	50.0 MPa	7250 psi	50 mm/min; ISO 527
Elongation at Break	>= 100 %	>= 100 %	50 mm/min; ISO 527
Elongation at Yield	4.6 %	4.6 %	50 mm/min; ISO 527
Tensile Modulus	1.90 GPa	276 ksi	1 mm/min; ISO 527
Flexural Yield Strength	72.0 MPa	10400 psi	2 mm/min; ISO 178
Flexural Modulus	1.90 GPa	276 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	55.0 kJ/m <sup>2</sup> @Temperature -40.0 <sup>o</sup> C	26.2 ft-lb/in <sup>2</sup> @Temperature -40.0 <sup>o</sup> F	80*10*4; ISO 180/1A
	65.0 kJ/m <sup>2</sup> @Temperature -20.0 <sup>o</sup> C	30.9 ft-lb/in <sup>2</sup> @Temperature -4.00 <sup>o</sup> F	80*10*4; ISO 180/1A
	80.0 kJ/m <sup>2</sup> @Temperature 23.0 <sup>o</sup> C	38.1 ft-lb/in <sup>2</sup> @Temperature 73.4 <sup>o</sup> F	80*10*4; ISO 180/1A
	>= 10.0 J/cm <sup>2</sup>		

Charpy Impact Unnotched	Metric	English	Comments
<b>Mechanical Properties</b>	@Temperature 23.0 °C	@Temperature 73.4 °F	NA: Edgew 80*10*4 sp=62mm; ISO 179/1eU
	>= 10.0 J/cm <sup>2</sup>	>= 47.6 ft-lb/in <sup>2</sup>	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
<b>Charpy Impact, Notched</b>	6.50 J/cm <sup>2</sup>	30.9 ft-lb/in <sup>2</sup>	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	8.00 J/cm <sup>2</sup>	38.1 ft-lb/in <sup>2</sup>	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
<b>CTE, linear, Parallel to Flow</b>	100 Åµm/m-Å°C	55.6 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
<b>CTE, linear, Transverse to Flow</b>	120 Åµm/m-Å°C	66.7 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
<b>Deflection Temperature at 0.46 MPa (66 psi)</b>	220 Å°C	428 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
<b>Deflection Temperature at 1.8 MPa (264 psi)</b>	72.0 Å°C	162 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
<b>Vicat Softening Point</b>	190 Å°C	374 Å°F	Rate B/120; ISO 306
	192 Å°C	378 Å°F	Rate B/50; ISO 306
<b>UL RTI, Electrical</b>	65.0 Å°C	149 Å°F	UL 746B
<b>UL RTI, Mechanical with Impact</b>	65.0 Å°C	149 Å°F	UL 746B
<b>UL RTI, Mechanical without Impact</b>	65.0 Å°C	149 Å°F	UL 746B
<b>Flammability, UL94</b>	HB	HB	UL 94
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	HB	HB	2nd value; UL 94
	@Thickness 3.00 mm	@Thickness 0.118 in	
<b>Flame Spread</b>	15.0 mm/min	0.591 in/min	FMVSS 302
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+16 ohm-cm	>= 1.00e+16 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+16 ohm	>= 1.00e+16 ohm	ROA; IEC 60093
Dielectric Constant	2.7	2.7	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	2.9	2.9	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Dielectric Strength	16.0 kV/mm	406 kV/in	in oil; IEC 60243-1
	@Thickness 3.20 mm	@Thickness 0.126 in	
Dissipation Factor	0.0067	0.0067	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Comparative Tracking Index	0.015	0.015	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	550 V	550 V	IEC 60112

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