

**LNP™ THERMOCOMP™ Compound 9X22141**

(PC+ABS)-GF20

Saudi Basic Industries Corporation (SABIC)

**Product Texts**

LNP THERMOCOMP 9X22141 compound (also known as ER016141) is based on Polycarbonate (PC) and Acrylonitrile butadiene styrene (ABS) resins containing 20% glass fiber. Added features of this grade include: High Stiffness, Excellent Processing, Good Dimensional Stability, Good Impact Performance, UL94 HB Rating.

UL Yellow Card Link: [E121562-104627828](https://www.ulprospector.com/121562-104627828)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	5	g/10min	ASTM D 1238
Temperature	260	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.003	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.004	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	7000	MPa	ISO 527
Stress at break	114	MPa	ISO 527
Strain at break	2.7	%	ISO 527
Flexural modulus, 23°C	6200	MPa	ISO 178
Charpy impact strength, +23°C	52	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	12	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C	63	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	11	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	7000	MPa	ASTM D 638
Tensile Strength at Break	116	MPa	ASTM D 638
Flexural Modulus	6600	MPa	ASTM D 790
Izod Impact notched, 1/8 in	110	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	110	J/m	ASTM D 256
Temperature	0	°C	-
Izod Impact unnotched, 1/8 in	700	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	132	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	137	°C	ISO 75-1/-2
Vicat softening temperature, B	136	°C	ISO 306
Coeff. of linear therm. expansion, parallel	38	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	58	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
Yellow Card available	yes	-	-
<b>ASTM Data</b>			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	0.75	mm	-
DTUL @ 66 psi	136	°C	ASTM D 648
DTUL @ 264 psi	132	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1290	kg/m <sup>3</sup>	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 100	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	260 - 290	°C	-
Mold temperature	60 - 90	°C	-

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Zone 1	<b>250 - 280</b>	°C	-
Zone 2	<b>255 - 285</b>	°C	-
Zone 3	<b>260 - 290</b>	°C	-
Nozzle temperature	<b>260 - 290</b>	°C	-
Back pressure	<b>0.2 - 0.7</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Applications**

Automotive

**Special Characteristics**

High impact or impact modified

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America