

Product Texts

LNP THERMOCOMP COMPOUND D551RCC is a compound based on Recycle Polycarbonate resin containing Glass Fiber, Flame Retardant. Added features of this material include high modulus, good flatness, good impact performance, Non-Brominated & Non-Chlorinated Flame Retardant. Post-Consumer Recycling (PCR) polycarbonate content up to 25%.

UL Yellow Card [E207780-104400886](https://www.ul.com/yellowcard/E207780-104400886)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	16	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mold Shrinkage, MD	0.0008	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0013	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Tensile Modulus	15700	MPa	ISO 527
Stress at break	150	MPa	ISO 527
Strain at break	2	%	ISO 527
Flexural modulus, 23°C	14100	MPa	ISO 178
Flexural strength	214	MPa	ISO 178
Charpy impact strength, +23°C	41	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	46	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	13	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	12	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	38	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	12	kJ/m ²	ISO 180/1A
Izod notched impact strength	11	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-
ASTM Data			
Tensile Modulus	15500	MPa	ASTM D 638
Tensile Strength at Break	151	MPa	ASTM D 638
Elongation at Break	2	%	ASTM D 638
Flexural Modulus	13500	MPa	ASTM D 790
Flexural Strength	220	MPa	ASTM D 790
Izod Impact notched, 1/8 in	120	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	110	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	407	J/m	ASTM D 256
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	104	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	113	°C	ISO 75-1/-2
Vicat softening temperature, B	109	°C	ISO 306
Coeff. of linear therm. expansion, parallel	13	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	57	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	1.0	mm	-
Yellow Card available	yes	-	-
ASTM Data			
Coefficient of Thermal Expansion, MD	14	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	53	E-6/K	ASTM D 696
DTUL @ 66 psi	112	°C	ASTM D 648
DTUL @ 264 psi	103	°C	ASTM D 648

LNP™ THERMOCOMP™ Compound D551RCC

PC-GF

Saudi Basic Industries Corporation (SABIC)

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1E16	Ohm	ASTM D 257
Volume Resistivity	1E15	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1630	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	110	°C	-
Pre-drying - Time	3 - 6	h	-
Processing humidity	≤0.02	%	-
Melt temperature	285 - 310	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	260 - 280	°C	-
Zone 2	270 - 290	°C	-
Zone 3	280 - 300	°C	-
Nozzle temperature	285 - 305	°C	-
Screw speed	50 - 90	rpm	-
Back pressure	0.1 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Flame retardant, Halogen-free, High impact or impact modified

Features

Ductile

Certifications

Recycled Resin Content

Applications

IT / Business Machine, Electrical and Electronical

Regional Availability

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