

Product Texts

LNP THERMOCOMP D251RCC compound is based on recycled Polycarbonate (PC) resin containing 20% glass fiber. Added features of this grade include: Colorable, High Modulus, Low Warpage, Good Ductility, Non-Brominated & Non-Chlorinated Flame Retardant. Post-Consumer Recycling (PCR) Polycarbonate content up to 40%

UL Yellow Card Link [E207780-103855643](https://www.ul.com/yellowcard/E207780-103855643)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	27	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	2.16	kg	-
ASTM Data			
Melt Flow Index, MFI	31	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.3	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.3	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	6750	MPa	ISO 527
Stress at break	108	MPa	ISO 527
Strain at break	3.1	%	ISO 527
Flexural modulus	6100	MPa	ISO 178
Flexural strength	157	MPa	ISO 178
Izod impact strength, +23°C, 4mm	38	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	12	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	9	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	6650	MPa	ASTM D 638
Tensile Strength at Break	100	MPa	ASTM D 638
Elongation at Break	2.9	%	ASTM D 638
Flexural Modulus	6300	MPa	ASTM D 790
Izod Impact notched, 1/8 in	139	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	94	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	616	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, B	122	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	125	°C	ISO 306
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.6	mm	-
ASTM Data			
DTUL @ 66 psi	119	°C	ASTM D 648
DTUL @ 264 psi	114	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1370	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	-

LNP™ THERMOCOMP™ Compound D251RCC

PC-GF20

Saudi Basic Industries Corporation (SABIC)

Zone 2	270 - 290	°C	-
Zone 3	280 - 300	°C	-
Screw speed	50 - 90	rpm	-
Back pressure	0.1 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Additives

Flame retarding agent

Special Characteristics

Flame retardant

Certifications

Recycled Resin Content

Regional Availability

North America, Europe, Asia Pacific