

Product Texts

LNP THERMOCOMP D251U compound is based on Polycarbonate (PC) resin containing 20% glass fiber. Added features of this grade include: High Modulus, Low Warp, Good Ductility, Non-Brominated & Non-Chlorinated Flame Retardant, Good UV Stability.

UL Yellow Card Link [E121562-104123741](https://www.ul.com/Products/Polycarbonate/PC-GF20)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	20	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	2.16	kg	-
ASTM Data			
Melt Flow Index, MFI	24	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	6810	MPa	ISO 527
Stress at break	112	MPa	ISO 527
Strain at break	2.6	%	ISO 527
Flexural modulus	6290	MPa	ISO 178
Charpy impact strength, +23°C	49	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	14	kJ/m ²	ISO 179/1eA
ASTM Data			
Tensile Modulus	6700	MPa	ASTM D 638
Tensile Strength at Break	110	MPa	ASTM D 638
Elongation at Break	2.7	%	ASTM D 638
Flexural Modulus	6200	MPa	ASTM D 790
Izod Impact notched, 1/8 in	147	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	650	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.3	mm	-
Burning behav. 5V at thickness h	5VA	class	IEC 60695-11-20
Thickness tested	1.5	mm	-
ASTM Data			
DTUL @ 66 psi	121	°C	ASTM D 648
DTUL @ 264 psi	115	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ISO Data			
Comparative tracking index	175	-	IEC 60112

Other properties	Value	Unit	Test Standard
Water absorption	0.07	%	Sim. to ISO 62
Density	1350	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	-

LNP™ THERMOCOMP™ Compound D251U

PC-GF20

Saudi Basic Industries Corporation (SABIC)

Zone 1	260 - 280	°C	-
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

Special Characteristics

Flame retardant

Additives

Flame retarding agent

Regional Availability

North America, Europe, Asia Pacific