LNP™ THERMOCOMP™ Compound D551RC

PC-GF50 — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOCOMP D551RC compound is based on recycled Polycarbonate (PC) resin containing 50% glass fiber. Added features of this grade include: High Modulus, Low Warpage, Good Ductility, Non-Brominated & Non-Chlorinated Flame Retardant. Post-Consumer Recycling (PCR) Polycarbonate content up to 30%.

UL Yellow Card Link E207780-102777817

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	**0.125**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.125**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**15300**	MPa	ISO 527
Stress at break	**147**	MPa	ISO 527
Strain at break	**1.35**	%	ISO 527
Charpy impact strength, +23°C	**31**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**12**	kJ/m²	ISO 179/1eA
ASTM Data			
Tensile Modulus	**16090**	MPa	ASTM D 638
Elongation at Break	**2**	%	ASTM D 638
Flexural Modulus	**13420**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**119**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**423**	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	**1.0**	mm	-
ASTM Data			
DTUL @ 264 psi	**105**	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	**1620**	kg/m³	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	-
Screw speed	**50 - 90**	rpm	-
Back pressure	**0.1 - 0.3**	MPa	-

Characteristics

Processing
Injection Molding

Certifications
Recycled Resin Content

Additives
Flame retarding agent

Regional Availability
North America, Europe, Asia Pacific

Special Characteristics
Flame retardant