LNP™ THERMOCOMP™ Compound D351RC

PC-GF30 — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOCOMP D351RC compound is based on recycled Polycarbonate (PC) resin containing 30% 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 35%.

UL Yellow Card Link E207780-102832656

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	**27.3**	g/10min	ASTM D 1238
Temperature	**300**	°C	-
Load	**2.16**	kg	-
Mold Shrinkage, MD	**0.2**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.2**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	**9415**	MPa	ASTM D 638
Tensile Strength at Break	**129**	MPa	ASTM D 638
Elongation at Break	**2.2**	%	ASTM D 638
Flexural Modulus	**8390**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**128**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**537**	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	**0.8**	mm	-
ASTM Data			
DTUL @ 264 psi	**119**	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	**1430**	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

Additives
Flame retarding agent

Special Characteristics
Flame retardant

Certifications
Recycled Resin Content

Regional Availability
North America, Europe, Asia Pacific