LNP™ THERMOCOMP™ Compound RX06421S

PA66-GF30 — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOCOMP RX06421S is a compound based on Nylon 66 resin containing 30% Glass Fiber. Added features of this material include: Easy Molding, Heat Stabilized, Clean Compounding System.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	**0.003**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.02**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**10600**	MPa	ISO 527
Stress at break	**181**	MPa	ISO 527
Strain at break	**2.6**	%	ISO 527
Flexural modulus, 23°C	**9480**	MPa	ISO 178
Izod impact strength, +23°C	**57**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C	**9**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**11000**	MPa	ASTM D 638
Tensile Strength at Break	**181**	MPa	ASTM D 638
Elongation at Break	**2.6**	%	ASTM D 638
Flexural Modulus	**9620**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**92**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**969**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**239**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**256**	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	**25**	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	**100**	E-6/K	ASTM D 696
DTUL @ 66 psi	**255**	°C	ASTM D 648
DTUL @ 264 psi	**243**	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	**1.2**	%	Sim. to ISO 62
Water Absorption, 24hr	**0.75**	%	ASTM D 570
Density	**1380**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**4**	h	-
Processing humidity	**≤0.25**	%	-
Melt temperature	**280 - 305**	°C	-
Mold temperature	**95 - 110**	°C	-
Zone 1	**265 - 275**	°C	-
Zone 2	**280 - 295**	°C	-
Zone 3	**295 - 305**	°C	-
Screw speed	**30 - 60**	rpm	-
Back pressure	**0.2 - 0.3**	MPa	-

Characteristics

Processing

Injection Molding

Applications

Electrical and Electronical

Special Characteristics
Heat stabilized or stable to heat

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