

LNP™ THERMOCOMP™ Compound UFW49RSC

PPA-(GF+MF)

Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOCOMP UFW49RSC compound is based on Polyphthalamide (PPA) resin containing 45% glass fiber, 20% Wollastonite. Added features of this grade include: Heat Stabilized.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	20800	MPa	ISO 527
Yield stress	186	MPa	ISO 527
Yield strain	1.1	%	ISO 527
Flexural modulus	18100	MPa	ISO 178
Izod impact strength, +23°C, 4mm	40	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	7	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	255	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	16	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	36	E-6/K	ISO 11359-1/-2

Other properties	Value	Unit	Test Standard
Density	1870	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120 - 150	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.15	%	-
Melt temperature	315 - 330	°C	-
Mold temperature	140 - 165	°C	-
Zone 1	310 - 320	°C	-
Zone 2	315 - 325	°C	-
Zone 3	325 - 340	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Applications

Automotive