LNP™ THERMOCOMP™
PSU
GF006(GF-1006)

Product information	
Manufacturer	Saudi Basic Industry Corporation
Other Certificates	MSDS
Part Marking Code	>PSU-GF30-FR<
Material Shape	Pellets
Process	Injection molding
FR	V-0
Material Attribute	30%Glass Fiber Reinforced Flame retardant

Physical property	Standard	Value	Unit
Density	ISO 1183	1.47	g/cm³
Shrinkage Flow	INTERNAL METHOD	0.1~0.4	%
Water Absorption 23° C 24hr	ISO 62	0.26	%

Mechanical behavior	Standard	Value	Unit
Tensile Modulus 1.0mm/min	ISO 527	10000	MPa
Tensile Strength Yield 5mm/min	ISO 527	118	MPa
Elongation Break 5mm/min	ISO 527	1.6	%
Flexural Strength Yield 2.0mm/min	ISO 178	165	MPa
Flexural Modulus 2.0 mm/min	ISO 178	8900	MPa
Flexural Strain Break 2.0mm/min	ISO 178	2.2	%
Izod Notch Impact 23°C 4.0mm Type A	ISO 180	8	kJ/m²
Izod Un-notch Impact 23°C 4.0mm	ISO 180	29	kJ/m²

Thermal	Standard	Value	Unit
HDT 0.45MPa 4.0mm	ISO 75	184	°C
HDT 1.8MPa 4.0mm	ISO 75	182	°C
CLE Flow 23~60°C	ISO 11359	2E-5	cm/cm/°C
CLE xFlow 23~60°C	ISO 11359	5.9E-5	cm/cm/°C

Flammability	Standard	Value	Unit
Flame Rating 1.6mm	UL94	V-0	

Injection molding	Value	Unit
Dry Temperature	120~150	°C
Dry Time	4	hr
Water Content Control	≤0.05	%
Zone1 Temperature	325~340	°C
Zone2 Temperature	340~350	°C
Zone3 Temperature	350~360	°C
Melt Temperature	360~370	°C
Mould Temperature	150	°C
Screw Speed	30~60	rpm
Back Pressure	0.2~0.3	MPa