

LNP™ THERMOCOMP™ Compound OF006A - Americas

PPS-GF30

Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOCOMP OF006A compound is based on branched Polyphenylene Sulfide (PPS) resin containing 30% glass fiber.

UL Yellow Card Link [E121562-101283821](https://www.ul.com/yellowcard/E121562-101283821)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.2	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.55	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	12500	MPa	ISO 527
Stress at break	129	MPa	ISO 527
Strain at break	1.2	%	ISO 527
Flexural modulus	11900	MPa	ISO 178
Flexural strength	220	MPa	ISO 178
Izod impact strength, +23°C, 4mm	31	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	9	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	12730	MPa	ASTM D 638
Tensile Strength at Break	129	MPa	ASTM D 638
Elongation at Break	1.3	%	ASTM D 638
Flexural Modulus	11250	MPa	ASTM D 790
Flexural Strength	193	MPa	ASTM D 790
Izod Impact notched, 1/8 in	69	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	405	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	263	°C	ISO 75-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.5	mm	-
Burning behav. 5V at thickness h	5VA	class	IEC 60695-11-20
Thickness tested	1.5	mm	-
ASTM Data			
DTUL @ 264 psi	267	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.06	%	Sim. to ISO 62
Density	1580	kg/m ³	ISO 1183
Density	1580	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120 - 150	°C	-
Pre-drying - Time	4	h	-
Melt temperature	315 - 320	°C	-
Mold temperature	140 - 165	°C	-
Zone 1	305 - 315	°C	-
Zone 2	320 - 330	°C	-
Zone 3	330 - 345	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America