

Product Texts

LNP THERMOCOMP DF0046P compound is based on Polycarbonate (PC) resin containing 20% glass fiber. Added features of this grade include: Exceptional Processing, Non-Brominated & Non-Chlorinated Flame Retardant.

UL Yellow Card Link [E207780-101284060](https://www.ulprospector.com/usa/Products/Polycarbonate/DF0046P)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.3	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.4	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	6920	MPa	ISO 527
Stress at break	97	MPa	ISO 527
Strain at break	3.3	%	ISO 527
Flexural modulus	6560	MPa	ISO 178
Flexural strength	151	MPa	ISO 178
Izod notched impact strength, +23°C, 4mm	8	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	6160	MPa	ASTM D 638
Tensile Strength at Break	95	MPa	ASTM D 638
Elongation at Break	3.6	%	ASTM D 638
Flexural Modulus	5970	MPa	ASTM D 790
Flexural Strength	137	MPa	ASTM D 790
Izod Impact notched, 1/8 in	74	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	467	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	138	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn. Thickness tested	V-0	class	IEC 60695-11-10
	1.5	mm	-
ASTM Data			
DTUL @ 66 psi	140	°C	ASTM D 648
DTUL @ 264 psi	137	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.1	%	Sim. to ISO 62
Density	1370	kg/m ³	ISO 1183
Water Absorption, 24hr	0.4	%	ASTM D 570
Density	1370	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	305 - 325	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	295 - 305	°C	-
Zone 2	310 - 320	°C	-
Zone 3	320 - 330	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

LNP™ THERMOCOMP™ Compound DF0046P

PC-GF20

Saudi Basic Industries Corporation (SABIC)

Processing

Injection Molding

Special Characteristics

Flame retardant

Additives

Flame retarding agent

Regional Availability

North America, Europe, Asia Pacific