LNP™ THERMOCOMP™ Compound OCF62E

PPS-(CF+GF) — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOCOMP OCF62E compound is based on linear Polyphenylene Sulfide (PPS) resin containing 10% carbon fiber, 30% glass fiber. Added features of this grade include: Electrically Conductive, Easy Molding

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	**0.25**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.85**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**28600**	MPa	ISO 527
Yield stress	**133**	MPa	ISO 527
Yield strain	**0.5**	%	ISO 527
Stress at break	**133**	MPa	ISO 527
Strain at break	**0.5**	%	ISO 527
Flexural modulus	**20600**	MPa	ISO 178
Izod impact strength, +23°C, 4mm	**13**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**6**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**30320**	MPa	ASTM D 638
Tensile Strength at Yield	**157**	MPa	ASTM D 638
Tensile Strength at Break	**157**	MPa	ASTM D 638
Elongation at Yield	**0.7**	%	ASTM D 638
Elongation at Break	**0.7**	%	ASTM D 638
Flexural Modulus	**19070**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**63**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**260**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**268**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**281**	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**10.2**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**46**	E-6/K	ISO 11359-1/-2
ASTM Data			
DTUL @ 66 psi	**280**	°C	ASTM D 648
DTUL @ 264 psi	**267**	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	**1660**	kg/m³	ISO 1183
Density	**1660**	kg/m³	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

Special Characteristics
Increased electrical conductivity

Regional Availability
North America, Europe, Asia Pacific