LNP™ THERMOCOMP™ Compound EF006ER

PEI-GF30 — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP THERMOCOMP EF006ER compound is based on Polyetherimide (PEI) resin containing 30% glass fiber. Added features of this grade include: Easy Molding, Mold Release.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.2**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.5**	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	**0.2**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.5**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**10200**	MPa	ISO 527
Stress at break	**154**	MPa	ISO 527
Strain at break	**3**	%	ISO 527
Flexural modulus	**9700**	MPa	ISO 178
Flexural strength	**235**	MPa	ISO 178
Izod impact strength, +23°C, 4mm	**39**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**9**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**10100**	MPa	ASTM D 638
Tensile Strength at Break	**164**	MPa	ASTM D 638
Elongation at Break	**3**	%	ASTM D 638
Flexural Modulus	**9340**	MPa	ASTM D 790
Flexural Strength	**241**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**90**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**646**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**201**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**207**	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	**203**	°C	ASTM D 648
DTUL @ 264 psi	**195**	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	**1520**	kg/m³	ISO 1183
Water Absorption, 24hr	**0.1**	%	ASTM D 570
Density	**1520**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**150**	°C	-
Pre-drying - Time	**4 - 6**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**360 - 400**	°C	-
Mold temperature	**140 - 180**	°C	-
Zone 1	**360 - 380**	°C	-
Zone 2	**370 - 390**	°C	-
Zone 3	**380 - 400**	°C	-
Back pressure	**0.3 - 0.7**	MPa	-

Characteristics

Processing
Injection Molding

Applications
Automotive

Regional Availability
North America, Europe, Asia Pacific