

LNP* Thermocomp* Compound EF006ER

Americas: COMMERCIAL

Also known as: EF-1006 EM MR
Product Reorder Name: EF006ER

LNP* Thermocomp* EF006ER is a compound based on Polyetherimide resin containing Glass Fiber. Added features of this material include: Easy Molding, Mold Release.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, break	164	MPa	ASTM D 638
Tensile Strain, break	7.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	22060	MPa	ASTM D 638
Flexural Stress	241	MPa	ASTM D 790
Flexural Modulus	10340	MPa	ASTM D 790
Tensile Stress, break	154	MPa	ISO 527
Tensile Strain, break	7.2	%	ISO 527
Tensile Modulus, 1 mm/min	14200	MPa	ISO 527
Flexural Stress	250	MPa	ISO 178
Flexural Modulus	11700	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	646	J/m	ASTM D 4812
Izod Impact, notched, 23°C	90	J/m	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	39	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m ²	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 0.45 MPa, 3.2 mm, unannealed	203	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	195	°C	ASTM D 648
CTE, -40°C to 40°C, flow	4.14E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	2.34E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	4.2E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	2.3E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	207	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	201	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Density	1.52	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.1	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.1 - 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.4 - 0.6	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.23	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.52	%	ISO 294
Density	1.52	g/cm ³	ISO 1183

Source GMD, last updated:09/24/2008

Processing

Parameter

Injection Molding	Value	Unit
Drying Temperature	120 - 150	°C
Drying Time	4	hrs
Maximum Moisture Content	0.05	%
Melt Temperature	360 - 365	°C
Front - Zone 3 Temperature	365 - 375	°C
Middle - Zone 2 Temperature	355 - 365	°C
Rear - Zone 1 Temperature	345 - 355	°C
Mold Temperature	120 - 150	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	60 - 100	rpm

Source GMD, last updated:09/24/2008

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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