

LNP* Thermocomp* Compound DC006ER

Americas: COMMERCIAL

Also known as: DC-1006 EM MR
Product Reorder Name: DC006ER

LNP THERMOCOMP* DC006ER is a compound based on Polycarbonate resin containing Carbon Fiber. Added features of this material include: Easy Molding.

Property

TYPICAL PROPERTIES ⁽¹⁾			
	Value	Unit	Standard
MECHANICAL			
Tensile Stress, break	150	MPa	ASTM D 638
Tensile Strain, break	1.9	%	ASTM D 638
Tensile Modulus, 50 mm/min	19580	MPa	ASTM D 638
Flexural Stress	220	MPa	ASTM D 790
Flexural Modulus	14540	MPa	ASTM D 790
Tensile Stress, break	148	MPa	ISO 527
Tensile Strain, break	1.8	%	ISO 527
Tensile Modulus, 1 mm/min	16700	MPa	ISO 527
Flexural Stress	226	MPa	ISO 178
Flexural Modulus	16500	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	480	J/m	ASTM D 4812
Izod Impact, notched, 23°C	69	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	9	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	32	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	143	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	141	°C	ASTM D 648
CTE, -40°C to 40°C, flow	2.71E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	2.79E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	2.71E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	2.78E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	140	°C	ISO 75/Af
PHYSICAL			
Density	1.3	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.14	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.04 - 0.1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.3 - 0.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.04 - 0.13	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.35 - 0.4	%	ISO 294
Density	1.3	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.21	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+02 - 1.E+06	Ohm	ASTM D 257

Source GMD, last updated:09/27/2004

Parameter	Value	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	4	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	305 - 325	°C
Front - Zone 3 Temperature	320 - 330	°C
Middle - Zone 2 Temperature	310 - 320	°C
Rear - Zone 1 Temperature	295 - 305	°C
Mold Temperature	80 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

Source GMD, last updated:09/27/2004

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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