

LNP™ THERMOCOMP™ DF006ER compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP THERMOCOMP* DF006ER is a compound based on Polycarbonate resin containing 30% Glass Fiber. Added features of this material include: Easy Molding, Mold Release.

Also known as: LNP* THERMOCOMP* Compound DF-1006 EM MR

Product reorder name: DF006ER

General Information			
UL YellowCard	E121562-101284106	E121562-101344535	E121562-101344608
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Mold Release		
Features	Good Mold Release		
	Good Moldability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.43	g/cm³	ASTM D792
--	1.42	g/cm³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.10	%	ASTM D955
Across Flow : 24 hr	0.50	%	ASTM D955
Across Flow : 24 hr	0.48	%	ISO 294-4
Flow : 24 hr	0.11	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	9510	MPa	ASTM D638
--	7510	MPa	ISO 527-2/1
Tensile Strength			
Break	133	MPa	ASTM D638
Break	106	MPa	ISO 527-2
Tensile Elongation			
Break	2.7	%	ASTM D638
Break	2.2	%	ISO 527-2
Flexural Modulus			
--	8760	MPa	ASTM D790
--	8500	MPa	ISO 178
Flexural Strength			

--	206	MPa	ASTM D790
--	197	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	130	J/m	ASTM D256
23°C ²	13	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	870	J/m	ASTM D4812
23°C ³	61	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	8.20	J	ASTM D3763
--	4.25	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	137	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	138	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	293 to 304	°C	
Middle Temperature	310 to 321	°C	
Front Temperature	321 to 332	°C	
Processing (Melt) Temp	304 to 327	°C	
Mold Temperature	82.2 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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