



LNP™ THERMOCOMP™ Compound MF0069S

Americas: OBSOLETE

Also known as: LNP™ THERMOCOMP™ Compound MFX-1006 FR HS
Product reorder name: MF0069S

LNP* Thermocomp* MF0069S is a compound based on Polypropylene resin containing Glass Fiber, Flame Retardant. Added features of this material include:
Chemically Coupled, Flame Retardant, Heat Stabilized.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	76	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	2.1	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	9050	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	125	MPa	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	118	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	7240	MPa	ASTM D 790
Tensile Stress, break, 5 mm/min	75	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	2.1	%	ISO 527
Tensile Strain, break, 5 mm/min	2.3	%	ISO 527
Tensile Modulus, 1 mm/min	8350	MPa	ISO 527
Flexural Stress	124	MPa	ISO 178
Flexural Modulus, 2 mm/min	7740	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	445	J/m	ASTM D 4812
Izod Impact, notched, 23°C	79	J/m	ASTM D 256
Multiaxial Impact	2	J	ISO 6603
Instrumented Impact Total Energy, 23°C	6	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	28	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	155	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	142	°C	ASTM D 648





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THERMAL			
CTE, -30°C to 30°C, flow	3.5E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	6.8E-05	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	151	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	136	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.46	-	ASTM D 792
Density	1.46	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.02	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.3 - 0.6	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.8 - 1.1	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.03	%	ISO 62
FLAME CHARACTERISTICS			
UL Compliant, 94V-0 Flame Class Rating (3)(4)	1.5	mm	UL 94 by SABIC-IP





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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Melt Temperature	225 - 250	°C
Front - Zone 3 Temperature	240 - 250	°C
Middle - Zone 2 Temperature	215 - 225	°C
Rear - Zone 1 Temperature	195 - 205	°C
Mold Temperature	30 - 50	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

