

Hepla® H7240CM FR

Material Description:

Hepla® H7240CM FR is designed to meet the requirements of V-0 performance in a 1/16 inch thickness. It has lower strength than the NFD series of flame retardant, glass fiber reinforced nylon materials, and is less expensive. It exhibits the same outstanding processing characteristics, with better dimensional stability for parts requiring minimul warpage.

General		
Material Status	• Commercial: Active	
Availability	• Asia Pacific	• North America
	• Europe	• Latin America
	• Middle East	• Africa
Filler/Reinforcement	• Mineral, 40% Filler by Weight	
Features	• Creep Resistant	• Heat Resistant
	• Flame Retardant	• Low CLTE
	• Fatigue Resistant	• Low Shrinkage
	• Weather Resistant	• Low Warpage
	• Excellent Dimensional Stability	
Uses	• Aircraft Applications	• Consumer Applications
	• Automotive Applications	• Industrial Applications
RoHS Compliance	• Contact Manufacturer	
Processing Method	• Injection Molding	

Physical Properties	Typical Value	Unit	Test Method
Specific Gravity	1.7	g/cm ³	ASTM D792
Molding Shrinkage-Flow (3.2mm)	0.5 to 0.8	%	ASTM D955
Water Absorption (24 hrs, 23°C)	0.6	%	ASTM D570

Hardness	Typical Value	Unit	Test Method
Hardness, Rockwell, R	118		ASTM D785

Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus	9000	MPa	ASTM D638
Tensile Strength	70	MPa	ASTM D638
Tensile Elongation(Yield)	1 to 2	%	ASTM D638
Flexural Modulus	7500	MPa	ASTM D790
Flexural Strength	102	MPa	ASTM D790

Impact Properties	Typical Value	Unit	Test Method
Notched Izod Impact (3.2mm)	27	J/m	ASTM D256
Unnotched Izod Impact (3.2mm)	210	J/m	ASTM D4812

Electrical Properties	Typical Value	Unit	Test Method
Dielectric Strength (S/T, in oil)	15.9	kV/mm	ASTM D149
Dielectric Constant (1 MHz, Dry)	4.1		ASTM D150
Dissipation Factor (1 MHz, Dry)	0.017		ASTM D150
Volume Resistivity	>1E15	Ohm-cm	ASTM D257

Flammability	Typical Value	Unit	Test Method
Ignition Resistance ¹	V-0		ASTM D3801
Flammability (1.5mm)			
Limiting Oxygen Index	34	%	ASTM D2863

Thermal Properties	Typical Value	Unit	Test Method
Deflection Temperature Under Load 1.8MPa Unannealed	149	°C	ASTM D648
Deflection Temperature Under Load 0.45MPa Unannealed	227	°C	ASTM D648

Processing Information	Typical Value	Unit
Injection Pressure	70 to 125	MPa
Melt Temperature	275 to 301	°C
Mold Temperature	65 to 108	°C
Drying Temperature	79	°C
Drying Time	4	hr
Moisture Content	0.2	%
Dew Point	-18	°C

Notes: Desiccant Type Dryer Required.
¹ This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

CAUTION/警告！

Before using, read the Molding Guide, Material Safety Data Sheets, and Bulletins available from NFD Advanced Composites Sales offices and Distributors supplied to your company. Caution! During drying, purging and molding, small amounts of hazardous gases and/or particulate matter may be released. These may irritate eyes, nose and throat. Use adequate local exhaust ventilation during thermal processing. To prevent resin decomposition, do not contaminate the resin or exceed the recommended melt temperature or hold-up time. Avoid inhalation or skin and eyes contact. Sweep up and dispose of spilled resin to eliminate slipping hazard.

在使用之前，请阅读NFD公司销售办事处和经销商提供给贵公司的材料成型指南、材料安全数据表和公告。警告！在干燥、吹扫和成型过程中，少量有害气体或颗粒物可能会在被释放，这些可能会刺激眼睛，鼻子和喉咙。热处理过程中请注意做好排气通风工作。为防止树脂分解，请勿污染树脂或超过我们为您推荐的热熔温度或时间。请避免吸入或与皮肤、眼睛等接触。清扫和处理溢出的树脂，以消除滑到的危险。

LEGAL NOTICES/法律声明

The figures indicated here are approximate values. They may be affected by different factors, and the user is not released therefore from the obligation of performing checks and trials of his own. The values indicated here have been compiled on the basis of current tests and findings. Any legally binding guarantee of certain properties, or any suitability for a specific application can not be inferred from the present data. For detailed production regulatory information, contact customer service.

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