

Matreial Data Sheet

技术数据表

NFD Composite Material (Jiangsu) Co., Ltd

Hepla® H9000T CL

Material Description:

Hepla ® H9000T CL is an unreinforced, impact modified polyphthalamide (PPA) resin that exhibits exceptional impact strength at temperatures ranging from room temperature to as low as -40°F (-40°C), which suggests possible applications in ski boots and hockey skates. In addition, its chemical and wear resistance, combined with good mechanical properties, make Hepla ® H9000 T CL resin a prime candidate for applications such as anti-friction and wear resistant components, chemical, oil field, automotive and safety equipment.

automotive and safety equipment	· ·	
General		
Material Status	 Commercial: Active 	
	Asia Pacific	North America
Availability	Europe	Latin America
	Middle East	Africa
A. I. Hart	Mold Release	Lubricant
Additive	Impact Modifier	
	Chemical Resistant	Ductile
	 Hot Water Moldability 	Impact Modified
Features	Low Temperature	Impact Resistance
	Low Warpage	Lubricated
	Wear Resistant	
Appearance	Natural Color	
RoHS Compliance	RoHS Compliant	
Forms	• Pellets	
Processing Method	Injection Molding	
	 Water-Heated Mold Injection Mold 	ing
Mariti Deliat Deta	 Isothermal Stress vs. Strain (ISO 114 	403-1)
Multi-Point Data	Secant Modulus vs. Strain (ISO 1140)	03-1)
Physical Properties	Typical Value Unit	Test Method
Density/Specific Gravity	1.11 g/cm ³	ISO 1183//
Molding Shrinkage	g, om	ASTM D95
Flow	1.7 to 2.2 %	
Across Flow	1.9 to 2.1 %	
Water Absorption (24 hr)	0.75 %	ASTM D570
Mechanical Properties	Typical Value Unit	Test Method
Tensile Modulus	1900 MPa	ASTM D63
Tensile Strength(Break)	62 MPa	ASTM D63
Tensile Elongation		ASTM D63
Yield	6 %	, , , , , , , , , , , , , , , , , , , ,
Break	30 %	

Import Droportics	Typical Value	Unit	Tost Mothod
Poisson's Ratio	0.35		ASTM E132
Flexural Strength	97	MPa	ASTM D790
Flexural Modulus	2210	MPa	ASTM D790
Break	30	%	
Yield	6	%	
Tensile Elongation			ASTM D638
Tensile Strength(Break)	62	MPa	ASTM D638
Tensile Modulus	1900	MPa	ASTM D638

Impact Properties	Typical Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40℃	750	J/m	
_ 23℃	1100	J/m	

Thermal Properties	Typical Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Annealed,3.18mm	120	${\mathbb C}$	
Melting Temperature	310	${\mathbb C}$	ISO 11357-3

Processing Information	Typical Value	Unit
Processing (Melt) Temp	321 to 343	${\mathbb C}$
Mold Temperature	> 135	${\mathbb C}$
Drying Temperature	110	${\mathbb C}$
Drying Time	4	hr
Suggested Max Moisture	0.045	%
Hopper Temperature	79	${\mathbb C}$
Rear Temperature	304 to 318	$^{\circ}\! \mathbb{C}$
Front Temperature	316 to 329	$^{\circ}$

NFD ADVANCED COMPOSITES

Hepla® H9000T CL

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质可能会在被释放,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熔融温度或时间。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。

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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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