

Matreial Data Sheet

技术数据表

NFD Composite Material (Jiangsu) Co., Ltd

Hepla® H7000 EX

Material Description:

Hepla ® H7000 EX is a Polyamide 12 (Nylon 12) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for extrusion.Important attributes of:RoHS Compliant, Plasticized,Good Flexibility High Viscosity.

General			
Material Status	 Commercial: Active 		
	Asia Pacific	 North America 	
Availability	• Europe	 Latin America 	
	Middle East	Africa	
Additive	 Plasticizer 		
Footures	 Good Flexibility 	 High Viscosity 	
Features	 Plasticized 	 Flame Rated 	
Uses	 Consumer Applications 	 Industrial Applications 	
USES	 Hydraulic Applications 	 Pneumatic Applications 	
RoHS Compliance	 RoHS Compliant 		
Forms	 Granules 		
Processing Method	 Extrusion 		
	• Isochronous Stress vs. Strain (ISO 11403-1)		
Multi-Point Data	Shear Modulus vs. Temperature (ISO 11403-1)		
	Viscosity vs. Shear Rate (ISO 11403-2)		

Physical Properties	Typical Value	Unit	Test Method
Density	1.03	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.3	%	
Flow	0.9	%	
Water Absorption			ISO 62
Saturation, 23℃	1.4	%	
Equilibrium, 23°C, 50% RH	0.7	%	

Hardness	Typical Value Un	nit	Test Method
Shore Hardness (Shore D, 15 sec)	65		ISO 868

Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus	472	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	31	MPa	
Break	47	MPa	
Tensile Strain (Yield)	16	%	ISO 527-2
Nominal Tensile Strain at Break	> 52	%	ISO 527-2

Impact Properties	Typical Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30℃	4.2	kJ/m ²	
23℃	No Break		
Charpy Unnotched Impact Strength			ISO 179/1eU
-30℃	No Break		
23℃	No Break		

Flammability	Typical Value Unit	Test Method

Electrical Properties	Typical Value	Unit	Test Method
Surface Resistivity	1.00E+13	ohms	IEC 60093
Volume Resistivity	1.00E+14	ohms·cm	IEC 60093
Electric Strength	32	kV/mm	IEC 60243-1
Comparative Tracking Index	600	V	IEC 60112

Thermal Properties	Typical Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	95	$^{\circ}$ C	ISO 75-2/B
1.8 MPa, Unannealed	45	$^{\circ}$ C	ISO 75-2/A
Continuous Use Temperature			
1	80.0 to 100	$^{\circ}\!\mathbb{C}$	ISO 2578
2	150	${\mathbb C}$	Internal Method
Melting Temperature ³	173	$^{\circ}$	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.40E-04	cm/cm/℃	
Transverse	1.80E-04	cm/cm/℃	

Additional Information	Typical Value Unit	Test Method
ISO Type	PA12-P, EHL, 22-004	ISO 1874

Notes

NFD ADVANCED COMPOSITES

Hepla® H7000 EX

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。

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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感谢您访问新孚达(NFD)! 我们秉承"New Formula Designer"的发展理念,将科研创新与生产应用紧密相连,无论您是设计师、工程师或者是采购专家,我们都可以帮助您拓展业务并获得新的灵感。 我们坚持诚信、合作、效率、创新的核心价值观,始终把客户放在第一位。相比于我们的竞争对手,我们专注于为您提供更先进的技术配方、更优质的产品,更好的解决方案及更周到的售后服务,我们懂市场、我们懂产品、我们更懂你们。

CONTACT:

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¹Long Term

² Short Term

³10℃/min