

## Hepia® H8050GF T

### Material Description:

Hepia® H8050GF T is an impact modified, 50% glass fiber reinforced polyarylamide PARA which exhibits very high strength and rigidity, outstanding surface gloss, and excellent impact resistance.

### General

Material Status	• Commercial: Active
Availability	<ul style="list-style-type: none"> <li>• Asia Pacific</li> <li>• Europe</li> <li>• Middle East</li> <li>• North America</li> <li>• Latin America</li> <li>• Africa</li> </ul>
Filler/Reinforcement	• Glass Fiber, 50% Filler by Weight
Additive	• Impact Modifier
Features	<ul style="list-style-type: none"> <li>• Chemical Resistant</li> <li>• Good Dimensional Stability</li> <li>• High Stiffness</li> <li>• Impact Modified</li> <li>• Outstanding Surface Finish</li> <li>• Creep Resistant</li> <li>• High Flow</li> <li>• High Strength</li> <li>• Low Moisture Absorption</li> </ul>
Uses	<ul style="list-style-type: none"> <li>• Appliance Components</li> <li>• Automotive Applications</li> <li>• Business Equipment</li> <li>• Lawn and Garden Equipment</li> <li>• Electrical/Electronic Applications</li> <li>• Industrial Applications</li> <li>• Machine/Mechanical Parts</li> <li>• Power/Other Tools</li> <li>• Appliances</li> <li>• Automotive Electronics</li> <li>• Camera Applications</li> <li>• Furniture</li> <li>• Housings</li> <li>• Electrical Housing</li> <li>• Metal Replacement</li> <li>• Gears</li> </ul>
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Appearance	<ul style="list-style-type: none"> <li>• Black</li> <li>• Natural Color</li> <li>• Colors Available</li> </ul>
Processing Method	• Injection Molding
Multi-Point Data	<ul style="list-style-type: none"> <li>• Isothermal Stress vs. Strain (ISO 11403-1)</li> <li>• Secant Modulus vs. Strain (ISO 11403-1)</li> </ul>

Physical Properties	Typical Value	Unit	Test Method
Density	1.6	g/cm <sup>3</sup>	ISO 1183
Water Absorption			
23°C, 24 hr	0.19	%	ISO 62
Equilibrium, 65% RH	1.5	%	Internal Method
Molding Shrinkage - Flow <sup>1</sup>	0.1 to 0.3	%	Internal Method

Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus	17055	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	200	MPa	
Break	235	MPa	
Tensile Strain(Break)	2.5	%	ISO 527-2
Flexural Modulus	17055	MPa	ISO 178
Flexural Stress	365	MPa	ISO 178

Impact Properties	Typical Value	Unit	Test Method
Notched Izod Impact	121.6	J/m	ASTM D256
Unnotched Izod Impact	1105	J/m	ASTM D4812

Flammability	Typical Value	Unit	Test Method
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Flame Rating (> 0.60 mm)	HB	UL 94
Oxygen Index	25 %	ISO 4589-2

Electrical Properties	Typical Value	Unit	Test Method
Electric Strength	25	kV/mm	IEC 60243-1
Dielectric Constant <sup>2</sup>			ASTM D2520
1.00 GHz	4.23		
2.40 GHz	4.27		
Dissipation Factor <sup>2</sup>			ASTM D2520
1.00 GHz	9.50E-03		
2.40 GHz	9.50E-03		

Thermal Properties	Typical Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	220	°C	ISO 75-2/A

Processing Information	Typical Value	Unit
Processing (Melt) Temp	270	°C
Mold Temperature	120 to 140	°C
Drying Temperature	120	°C
Drying Time	0.5 to 1.5	hr
Rear Temperature	250 to 260	°C
Front Temperature	260 to 280	°C

**NOTES:**

<sup>1</sup> Pressure 750 bars (10.9 kpsi); specimen 40 mm x 20 mm x 2-4 mm. (1.6 in. x 0.8 in. x 0.08-0.16 in.)

<sup>2</sup> Method B

**NFD ADVANCED COMPOSITES**

Hepla® H8050GF T

**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之熔融温度或时间。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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