

Gepla®XA0082

Material Description:

Gepla ® XA0082 is a Polybutylene Terephthalate (PBT) product filled with Impact Modifier.Characteristics include: Base Resin,Antibacterial

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• North America	
	• Europe	• Latin America	
	• Middle East	• Africa	
Additive	• Medium Viscosity	• Antibacterial	
Features	• Impact Modified	• Oil Resistance	
	• Heat Resistant	• Low Moisture Absorption	
	• Good Electrical Properties	• Good Dimensional Stability	
RoHS Compliance	• RoHS Compliant		
Processing Method	• Injection Molding		

Physical Properties	Typical Value	Unit	Test Method
Density/Specific Gravity	1.3	g/cm ³	ASTM D792
Moisture Content	0.03	%	
Molding Shrinkage - Flow (3.20 mm)	1.5 to 2.6	%	ASTM D955

Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus	2500	MPa	ASTM D638
Tensile Strength	55	MPa	ASTM D638
Tensile Elongation(Yield)	> 50	%	ASTM D638
Flexural Modulus	2300	MPa	ASTM D790
Flexural Strength	85	MPa	ASTM D790

Impact Properties	Typical Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	165	°C	ISO 75-2/B
1.82 MPa, Unannealed	65	°C	ISO 75-2/A
Melting Temperature	223	°C	ISO 11357-3
Thermal Conductivity	0.27	W/m/K	DIN 52612

Thermal	Typical Value	Unit	Test Method
Notched Izod Impact(3.2mm)	520	J/m	ASTM D256
Unnotched Izod Impact(3.2mm)	No Break		ASTM D4812

Antibacterial grade	Typical Value	Unit	Test Method
Antibacterial grade	≥99%		ISO 22196:2011

Electrical	Typical Value	Unit	Test Method
Surface Resistivity	1E+13	ohms	IEC 60093
Volume Resistivity	1E+16	ohms-cm	IEC 60093
Relative Permittivity			
100 Hz	0.001		IEC 60250
1 MHz	0.02		
Comparative Tracking Index			IEC 60112
Solution A	550	V	
Solution B	450	V	

Flammability	Typical Value	Unit	Test Method
Flame Rating(1.5mm)	HB		UL 94

Processing Information	Typical Value	Unit
Injection Pressure	68.9 to 103	MPa
Processing (Melt) Temp	238 to 271	°C
Mold Temperature	79 to 107	°C
Drying Temperature	121	°C
Drying Time	4	hr
Dew Point	-29	°C

NFD ADVANCED COMPOSITES

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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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