Nymax[™] GMF 604 40 UV BLACK 28

Polyamide 6 Avient Corporation

Technical Data

Product Description

The Nymax® 600 Series of mineral-reinforced nylon 6 compounds have been specifically developed to provide an excellent balance of physical property performance and durability, with improved surface appearance. These materials have been formulated to offer ease of processing in most standard thermoplastic processing equipment.

General

Material Status	Commercial: Active	
Literature ¹	Technical Datasheet	
Search for UL Yellow Card	 Avient Corporation Nymax[™] 	
Availability	 Africa & Middle East Asia Pacific	EuropeNorth America
Filler / Reinforcement	 Glass Fiber\Mineral, 40% Filler by Weight 	
Features	UV Resistant	
Appearance	Black	
Processing Method	Injection Molding	

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.51 g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.50 %	ASTM D955
Mechanical	Nominal Value Unit	Test Method
Tensile Strength ³	135 MPa	ASTM D638
Flexural Modulus ⁴	9650 MPa	ASTM D790
Flexural Strength ⁴	220 MPa	ASTM D790
Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	64 J/m	ASTM D256
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
1.8 MPa, Unannealed, 3.20 mm	190 °C	
Electrical	Nominal Value Unit	Test Method
Surface Resistivity	1.0E+15 ohms	ASTM D257
Injection	Nominal Value Unit	
Drying Temperature	82 °C	
Drying Time	4.0 hr	
Suggested Max Moisture	0.10 to 0.20 %	
Rear Temperature	260 to 277 °C	
Middle Temperature	274 to 288 °C	
Front Temperature	274 to 288 °C	
Nozzle Temperature	274 to 288 °C	
Mold Temperature	49 to 93 °C	

Injection Notes

Injection Pressure: MED-HIGH Hold Pressure: MED-HIGH Screw Speed: MODERATE Back Pressure: LOW



1 of 2

UL LLC ©2024. All rights reserved. UL Prospector | 800-788-4668 or 307-742-9227 | www.ulprospector.com.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.

Nymax[™] GMF 604 40 UV BLACK 28 Polyamide 6 Avient Corporation



Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 5.0 mm/min

⁴ 1.3 mm/min



2 of 2

UL LLC ©2024. All rights reserved. UL Prospector | 800-788-4668 or 307-742-9227 | www.ulprospector.com.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content. Form No. TDS-241437-en Document Created: Tuesday, January 30, 2024 Added to Prospector: February 2014 Last Updated: 7/7/2022