

FRIANYL® B3 V0

Polyamide 6

Nilit Plastics

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

FLAME RETARDANT COMPOUND

- HALOGENS AND RED PHOSPHOROUS FREE REINFORCED AND UNREINFORCED
- RED PHOSPHOROUS GLASS FIBER REINFORCED
- HALOGENS REINFORCED AND UNREINFORCED
- HALOGENS ANTIMONY TRIOXIDE FREE
- MORE THAN 80 PRODUCTS UL AND VDE LISTED
- WIDE RANGE OF COLORS

PA6, UNFILLED, FLAME RETARDANT V0

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English) • Technical Datasheet (German) • Technical Datasheet (Italian)
Search for UL Yellow Card	• Nilit Plastics • FRIANYL®
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Additive	• Flame Retardant
Features	• Flame Retardant
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density (23°C)	1,20 g/cm ³	ISO 1183
Molding Shrinkage		ISO 294-4
Across Flow : 23°C	1,5 %	
Flow : 23°C	1,5 %	
Water Absorption		ISO 62
23°C, 24 hr	2,0 %	
Saturation, 23°C	8,0 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus (23°C)	3450 MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	70,0 MPa	ISO 527-2
Tensile Strain (Break, 23°C)	8,0 %	ISO 527-2

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C	3,0 kJ/m ²	
23°C	3,5 kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179/1eU
-30°C	No Break	
23°C	No Break	

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0,45 MPa, Unannealed	185 °C	ISO 75-2/B
1,8 MPa, Unannealed	85,0 °C	ISO 75-2/A
Continuous Use Temperature ³	125 °C	IEC 60216
Ball Pressure Test		IEC 60695-10-2
125°C	Pass	
165°C	Pass	



FRIANYL® B3 V0

Polyamide 6

Nilit Plastics

PROSPECTOR®

www.ulprospector.com

Electrical	Nominal Value Unit	Test Method
Volume Resistivity (23°C)	1,0E+16 ohms · cm	IEC 60093
Comparative Tracking Index 3,20 mm, Solution A	600 V	IEC 60112
Needle Flame Test 1,00 mm	Pass	IEC 60695-11-5
2,00 mm	Pass	
Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
0,40 mm	V-0	
0,8 mm	V-0	
1,6 mm	V-0	
3,2 mm	V-0	
Glow Wire Flammability Index		IEC 60695-2-12
0,8 mm	960 °C	
3,2 mm	960 °C	
Oxygen Index	32 %	ISO 4589-2

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 20000 hr



FRIANYL® B3 V0

Polyamide 6

Nilit Plastics

PROSPECTOR®

www.ulprospector.com

Where to Buy

Supplier

Nilit Plastics

Web: <http://www.nilit.com/plastics/contact.asp>

Distributor

Please contact the supplier to find a distributor for FRIANYL® B3 V0

