

# TECHNYL® PROTECT A 60G1 V25 WT R9003

# PROSPECTOR®

www.ulprospector.com

Polyamide 66

DOMO Engineering Plastics

## Technical Data

### Product Description

\*Previously TECHNYL A 60G1 V25 WHITE R9003

TECHNYL PROTECT A 60G1 V25 WT R9003 is a polyamide 66 based on a non-halogenated flame retardant system, reinforced with 25% of glass fiber, heat stabilized, for injection molding. This grade offers excellent flame retardancy properties (UL 94, 5VA, GWIT) combined with excellent processing, mechanical and electrical performance.

### General

Material Status	• Commercial: Active
UL Yellow Card <sup>1</sup>	• E44716-100870482 • E44716-535818 • E170540-104555925 • E170540-104555926 • E170540-563189
Search for UL Yellow Card	• DOMO Engineering Plastics
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight
Additive	• Flame Retardant
Features	• Flame Retardant • Halogen Free • Low (to None) Phosphorus Content • UV Laser Markable
Uses	• Electrical/Electronic Applications
Agency Ratings	• EC 1907/2006 (REACH) • EN 45545 • UL 94
Appearance	• Black • Grey • Natural Color • White
Forms	• Pellets
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA66-GF25 FR(40)

Physical	Dry	Conditioned	Unit	Test Method
Density	1.38	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.1	--	%	
Flow	0.40	--	%	
Water Absorption				ISO 62
24 hr, 23°C	0.70	--	%	
Saturation, 23°C	4.2	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10000	6700	MPa	ISO 527-1
Tensile Stress (Break)	100	67.0	MPa	ISO 527-2
Tensile Strain (Break)	1.6	2.7	%	ISO 527-2
Flexural Modulus	8900	6000	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.5	4.5	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	26	--	kJ/m <sup>2</sup>	ISO 179/1eU



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Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	259	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	240	--	°C	ISO 75-2/A
Melting Temperature <sup>3</sup>	263	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Electric Strength	35	--	kV/mm	IEC 60243-1
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.75 mm	V-0	--		
1.5 mm	5VA	--		
3.0 mm	5VA	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.75 mm	960	--	°C	
1.5 mm	960	--	°C	
3.0 mm	960	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.75 mm	775	--	°C	
1.5 mm	775	--	°C	
Oxygen Index	33	--	%	

Injection	Dry Unit
Drying Temperature	80 °C
Suggested Max Moisture	0.20 %
Rear Temperature	265 to 275 °C
Middle Temperature	265 to 275 °C
Front Temperature	270 to 280 °C
Mold Temperature	60 to 80 °C

**Notes**

<sup>1</sup> A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

<sup>3</sup> 10°C/min



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## Where to Buy

### Supplier

#### DOMO Engineering Plastics

Telephone: +49-33862139776 (Germany); +39-04640587676 (Italy)

Web: <http://www.domochemicals.com>

### Distributor

#### AMP FRANCE

Telephone: +33-3-8920-1390

Web: <http://www.amp.fr/>

Availability: France

#### Bamberger Polymers, Inc.

*Bamberger Polymers is a global distribution company. Contact Bamberger Polymers for availability of individual products by country.*

Telephone: 516-622-3600

Web: <http://www.bambergerpolymers.com/>

Availability: Canada, Mexico, United States

#### PolySource

*PolySource is a North American resin and plastics distributor. Please feel to reach out to your Technical Sales Account Manager. <https://polysource.net/our-team/>*

Telephone: 816-540-5300

Web: <http://www.polysource.net/>

Availability: Canada, Mexico, United States

