

# TECHNYL® A 20 V25 BLACK 25

Polyamide 66

Solvay Engineering Plastics



ides.com/prospector

## Technical Data

### Product Description

Flame retardant polyamide 66, reinforced with 25% of glass fibre, for injection moulding.

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• Processing - Rhodia Injection Molding (English) • Processing - Technyl A & C Injection Molding (English) • Technical Datasheet (English)
UL Yellow Card <sup>2</sup>	• E44716-235546
Search for UL Yellow Card	• Solvay Engineering Plastics • TECHNYL® A
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America • South America
Filler / Reinforcement	• Glass Fiber Reinforcement, 25% Filler by Weight
Additive	• Flame Retardant
Features	• Flame Retardant
Uses	• Connectors • Switches • Thin-walled Parts
Appearance	• Black
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PA66-GF25<

Physical	Dry	Conditioned	Unit	Test Method
Density	1.38	--	g/cm <sup>3</sup>	ISO 1183/A
Water Absorption (23°C, 24 hr)	0.75	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9000	6500	MPa	ISO 527-2/1A
Tensile Stress				ISO 527-2/1A
Yield	160	120	MPa	
Break	160	120	MPa	
Tensile Strain				ISO 527-2/1A
Yield	2.0	4.0	%	
Break	2.0	4.0	%	
Flexural Modulus	7500	6000	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	8.0	9.0	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength	50	60	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Izod Impact Strength	8.0	9.0	kJ/m <sup>2</sup>	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature	263	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	0.10	0.010	ohm	IEC 60093
Volume Resistivity	10	0.10	ohm·cm	IEC 60093
Electric Strength	25	25	kV/mm	IEC 60243-1
Dissipation Factor	0.020	0.050		IEC 60250
Comparative Tracking Index				IEC 60112
Solution A	375	350	V	
Solution B	350	--	V	
Flammability	Dry	Conditioned	Unit	Test Method
Glow Wire Flammability Index (1.60 mm)	960	--	°C	IEC 60695-2-12
Oxygen Index	31	--	%	ISO 4589-2

# TECHNYL® A 20 V25 BLACK 25

Polyamide 66

Solvay Engineering Plastics

Injection	Dry Unit
Drying Temperature	80.0 °C
Suggested Max Moisture	0.20 %
Rear Temperature	270 to 275 °C
Middle Temperature	275 to 280 °C
Front Temperature	280 to 285 °C
Mold Temperature	60.0 to 80.0 °C

## Notes

<sup>1</sup> 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.

<sup>2</sup> A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL IDES 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>3</sup> Typical properties: these are not to be construed as specifications.

# TECHNYL® A 20 V25 BLACK 25

Polyamide 66

Solvay Engineering Plastics



ides.com/prospector

## Where to Buy

### Supplier

TECHNYL® A 20 V25 BLACK 25

#### Solvay Engineering Plastics

, Germany  
**Telephone:** +00-800-55-400-600  
**Web:** <http://www.rhodia.com/>

TECHNYL® A 20 V25 BLACK 25

#### Solvay Engineering Plastics

, Germany  
**Telephone:** +00-800-55-400-600  
**Web:** <http://www.rhodia.com/>

### Distributor

TECHNYL® A 20 V25  
BLACK 25

#### Amco Polymers LLC

**Telephone:** 800-262-6685  
**Web:** <http://www.amco.ws/>  
**Availability:** North America

#### GAZECHIM PLASTIQUES

*GAZECHIM PLASTIQUES is a Pan European distribution company. Contact GAZECHIM PLASTIQUES for availability of individual products by country.*

**Telephone:** +33-4-67-49-55-37  
**Web:** <http://www.gazechim.com/>  
**Availability:** France

#### Leonardi

**Telephone:** +39-71-7300058  
**Web:** <http://www.leonardi.it/>  
**Availability:** Italy

#### Nexeo Solutions - Europe

*Nexeo Solutions is a Pan European distribution company. Contact Nexeo for availability of individual products by country.*

**Telephone:** +34-93-480-9125  
**Web:** <http://www.nexeosolutions.com/>  
**Availability:** Italy

#### RESINEX Group

*RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.*

**Telephone:** +32-14-672511  
**Web:** <http://www.resinex.com/>  
**Availability:** Europe

#### Southland Polymers

**Telephone:** 562-921-0444  
**Web:** <http://www.southlandpolymers.com/>  
**Availability:** Canada, Mexico, South America, United States

#### TER HELL PLASTIC GMBH

*TER HELL PLASTIC is a Pan European distribution company. Contact TER HELL PLASTIC for availability of individual products by country.*

**Telephone:** +49-232-3941-0  
**Web:** <http://www.terhell.de/>  
**Availability:** Germany

#### The Materials Group

**Telephone:** 616-863-6046  
**Web:** <http://thematerialsgroup.com/>  
**Availability:** North America

# TECHNYL® A 20 V25 BLACK 25

Polyamide 66

Solvay Engineering Plastics

TECHNYL® A 20 V25  
BLACK 25

## Amco Polymers LLC

Telephone: 800-262-6685

Web: <http://www.amco.ws/>

Availability: North America

## GAZECHIM PLASTIQUES

*GAZECHIM PLASTIQUES is a Pan European distribution company. Contact GAZECHIM PLASTIQUES for availability of individual products by country.*

Telephone: +33-4-67-49-55-37

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

Availability: France

## Leonardi

Telephone: +39-71-7300058

Web: <http://www.leonardi.it/>

Availability: Italy

## Nexeo Solutions - Europe

*Nexeo Solutions is a Pan European distribution company. Contact Nexeo for availability of individual products by country.*

Telephone: +34-93-480-9125

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

Availability: Italy

## RESINEX Group

*RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.*

Telephone: +32-14-672511

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

Availability: Europe

## Southland Polymers

Telephone: 562-921-0444

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

Availability: Canada, Mexico, South America, United States

## TER HELL PLASTIC GMBH

*TER HELL PLASTIC is a Pan European distribution company. Contact TER HELL PLASTIC for availability of individual products by country.*

Telephone: +49-232-3941-0

Web: <http://www.terhell.de/>

Availability: Germany

## The Materials Group

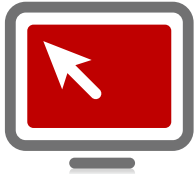
Telephone: 616-863-6046

Web: <http://thematerialsgroup.com/>

Availability: North America



Founded in 1986 and based in Laramie, Wyoming, IDES is now part of the UL family of companies. UL is a premier global independent safety science company with more than a century of proven history. Employing nearly 10,000 professionals in over 100 countries, UL has five distinct business units -- Product Safety, Environment, Life & Health, Knowledge Services and Verification Services -- to meet the expanding needs of our customers and to deliver on our public safety mission.



### Prospector Plastics Database - [www.ides.com/prospector](http://www.ides.com/prospector)

Prospector is a searchable online database that includes 85,000 data sheets from 875 manufacturers and 44,000 UL yellow cards. Each data sheet includes property, processing and supplier contact information. Prospector is relied on by nearly 400,000 design engineers and plastics processors. Using Prospector, they save time with plastic material selection by quickly and easily referencing technical information critical to the success of their products.

*"Prospector is absolutely the best and most well-known search engine for plastic raw materials in the world. We use Prospector every day – it's a real time saver!"*

– Birgit Elvardt Bader, Production Manager, Micotron

#### Power Searches

**Property Search** – select plastics by 500 key properties and design parameters.

**Alternative Resins Search** – find replacement plastics within minutes.

**Automotive Plastics Search** – easily locate automotive approved plastics.

**Curve Data** – view, overlay and export curve data.



### Material Data Management – [www.ides.com/datasheets](http://www.ides.com/datasheets)

With our data management services, plastic suppliers and distributors can have custom search interfaces available on their website for their customers, website visitors, sales and customer service teams. These provide intuitive ways to find and view technical data sheets for their products.

*"With UL IDES data services, our website now displays the most current information on the products we distribute and links to our backend RFQ and sales order system, adding both value and service for our customers."*

– Kevin Chase, Owner & President, Chase Plastics



### Advertising – [www.ides.com/advertise](http://www.ides.com/advertise)

Reach 365,000 pre-qualified plastics professionals and generate leads with proven techniques. Electronic newsletter insertions, sponsored webinars and powerful online ads are available to make the most of your lead-generation program.

For more information, call: 800.788.4668 or 307.742.9227 ext. 220