

TECHNYL® B 218 V30 BLACK 21 N

Polyamide 66/6 Copolymer

Solvay Engineering Plastics

PROSPECTOR®

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Technical Data

Product Description

Copolyamide PA66/6, reinforced with 30% of glass fibre, heat stabilized, for injection moulding.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
UL Yellow Card ²	• E44716-235617
Search for UL Yellow Card	• Solvay Engineering Plastics • TECHNYL® B
Availability	• Africa & Middle East • Europe • Latin America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Heat Stabilizer
Features	• Good Surface Finish • Heat Stabilized
Uses	• Automotive Applications • Handles • Housings
Appearance	• Black • Grey
Processing Method	• Injection Molding
Part Marking Code (ISO 11469)	• >PA66/6-GF30<

Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	0.70	--	%	
Flow	0.50	--	%	
Water Absorption (73°F (23°C), 24 hr)	0.95	--	%	ISO 62
Molding Shrinkage Isotropy	0.700	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.42E+6 (9800)	943000 (6500)	psi (MPa)	ISO 527-2/1A
Tensile Stress (Break)	26800 (185)	16700 (115)	psi (MPa)	ISO 527-2/1A
Tensile Strain (Break)	3.0	8.0	%	ISO 527-2/1A
Flexural Modulus	1.20E+6 (8300)	682000 (4700)	psi (MPa)	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	5.2 (11)	7.6 (16)	ft·lb/in ² (kJ/m ²)	ISO 179/1eA
Charpy Unnotched Impact Strength	38 (80)	44 (92)	ft·lb/in ² (kJ/m ²)	ISO 179/1eU
Notched Izod Impact Strength	5.2 (11)	9.0 (19)	ft·lb/in ² (kJ/m ²)	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/Af
264 psi (1.8 MPa), Unannealed	446 (230)	--	°F (°C)	
Melting Temperature	468 (242)	--	°F (°C)	ISO 11357-3



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Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	6.0E+14	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.5E+12	ohms·cm	IEC 60093
Electric Strength	860 (34)	740 (29)	V/mil (kV/mm)	IEC 60243-1
Relative Permittivity	3.70	4.00		IEC 60250
Dissipation Factor	0.010	0.11		IEC 60250
Comparative Tracking Index				IEC 60112
Solution A	450	--	V	
Solution B	300	--	V	
Flammability	Dry	Conditioned	Unit	Test Method
Oxygen Index	23	--	%	ISO 4589-2
Fire and Smoke F Index - I2, F3	1	--		NF F16-101

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80.0 °C
Suggested Max Moisture	0.20 %	0.20 %
Rear Temperature	482 to 518 °F	250 to 270 °C
Middle Temperature	500 to 518 °F	260 to 270 °C
Front Temperature	518 to 536 °F	270 to 280 °C
Mold Temperature	176 to 212 °F	80.0 to 100 °C

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 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.

³ Typical properties: these are not to be construed as specifications.



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Where to Buy

Supplier

Solvay Engineering Plastics

, Germany

Telephone: +49-800-55-400-600

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

Distributor

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

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

Southland Polymers - Full Service Engineering and Commodity Resin Distribution Since 1979

Telephone: 562-921-0444

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

Availability: Central America, North America, South America

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

