

TECHNYL® A 218 V30 NC

Polyamide 66

DOMO Engineering Plastics

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

TECHNYL A 218 V30 NC is a polyamide 66, reinforced with 30% of glass fibre, heat stabilized, for injection moulding. This grade offers an excellent combination between thermal and mechanical properties.

General

Material Status	• Commercial: Active
UL Yellow Card ¹	• E44716-235569 • E44716-235570
Search for UL Yellow Card	• DOMO Engineering Plastics • TECHNYL®
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Heat Stabilizer
Features	• Heat Aging Resistant • Heat Stabilized
Uses	• Automotive Applications
Agency Ratings	• EC 1907/2006 (REACH) • UL 94
RoHS Compliance	• RoHS Compliant
Appearance	• Black • Natural Color
Forms	• Pellets
Processing Method	• Injection Molding
Multi-Point Data	• Isothermal Stress vs. Strain (ISO 11403-1)
Resin ID (ISO 1043)	• PA66-GF30

Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.1	--	%	
Flow	0.40	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10000	7500	MPa	ISO 527-1
Tensile Stress (Break)	190	135	MPa	ISO 527-2
Tensile Strain (Break)	3.0	7.0	%	ISO 527-2
Flexural Modulus	9000	6400	MPa	ISO 178
Flexural Stress	290	215	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	15	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	75	88	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	10	18	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	60	65	kJ/m ²	ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	260	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	255	--	°C	ISO 75-2/A
Melting Temperature ³	262	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	6.0E+15	--	ohms	IEC 62631-3-2
Volume Resistivity	1.0E+13	--	ohms·m	IEC 62631-3-1
Electric Strength	34	--	kV/mm	IEC 60243-1
Comparative Tracking Index	400	--	V	IEC 60112



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Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.5 mm)	HB	--		UL 94
Glow Wire Flammability Index (1.5 mm)	700	--	°C	IEC 60695-2-12
Oxygen Index	23	--	%	

Injection	Dry Unit
Drying Temperature	80 °C
Suggested Max Moisture	0.20 %
Rear Temperature	270 to 280 °C
Middle Temperature	275 to 285 °C
Front Temperature	280 to 290 °C
Mold Temperature	70 to 100 °C

Notes

¹ 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.

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

³ 10°C/min



Where to Buy

Supplier**DOMO Engineering Plastics****Telephone:** +49-33862139776 (Germany); +39-04640587676 (Italy)**Web:** <http://www.domochemicals.com>

Distributor**Amco Polymers****Telephone:** 800-262-6685**Web:** <http://www.amcopolymers.com/>**Availability:** North America**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**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**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:** 866-558-5300**Web:** <http://www.polysource.net/>**Availability:** North 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:** +49-2366-5661-0**Web:** <https://www.terplastics.com/>**Availability:** Germany**Ultrapolymers***Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.***Telephone:** +32-11-57-95-57**Web:** <http://www.ultrapolymers.com/>**Availability:** Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Denmark, Estonia, Finland, France, Germany, Hungary, Ireland, Italy, Latvia, Lithuania, Macedonia, Netherlands, Norway, Portugal, Romania, Serbia, Slovakia, Slovenia, South Africa, Spain, Sweden, Turkey, United Kingdom