

TECHNYL STAR® S 218 MZ20 V10 BK 2N

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Polyamide 6

DOMO Engineering Plastics

Technical Data

Product Description

TECHNYL STAR S 218 MZ20 V10 BK 2N is based on a patented high flow polyamide 6 resin (TechnylStar), heat stabilized, reinforced with 20% of mineral filler and 10% of glass fibre, for injection moulding. Due to its outstanding flow characteristics, this grade provides a significant productivity improvement and allows more freedom in mould design and part design versus standard polyamide solution.

General

Material Status	• Commercial: Active
Search for UL Yellow Card	• DOMO Engineering Plastics • TECHNYL STAR®
Availability	• Europe
Filler / Reinforcement	• Glass Fiber\Mineral, 30% Filler by Weight
Additive	• Heat Stabilizer
Features	• Heat Aging Resistant • Heat Stabilized • High Dimensional Stability • High Flow • Low Warpage • Outstanding Surface Finish
Uses	• Automotive Applications • Consumer Applications • Industrial Applications
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA6-MD20+GF10

Physical	Nominal Value Unit	Test Method
Density	1.36 g/cm ³	ISO 1183
Molding Shrinkage		ISO 294-4
Across Flow	0.80 %	
Flow	0.40 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	7800 MPa	ISO 527-1
Tensile Stress (Break)	110 MPa	ISO 527-2
Tensile Strain (Break)	2.8 %	ISO 527-2

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.4 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	35 kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	3.7 kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	32 kJ/m ²	ISO 180/1U

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	186 °C	ISO 75-2/A
Melting Temperature ²	222 °C	ISO 11357-3

Injection	Nominal Value Unit
Drying Temperature	80 °C
Suggested Max Moisture	0.20 %
Rear Temperature	230 to 235 °C
Middle Temperature	235 to 240 °C
Front Temperature	240 to 245 °C
Mold Temperature	60 to 90 °C

Notes

¹ Typical properties: these are not to be construed as specifications.

² 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

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

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

