

TECHNYL®

TECHNYL® B 216L2 V20 GREY 2533

TECHNICAL DATA SHEET

Revised: April, 2017

TECHNYL® B 216L2 V20 Grey 2533 is a Copolyamide 66/6, reinforced with 30% of glass fibre with improved UV ageing resistance, for injection moulding. This grade offers an excellent combination between impact resistance, rigidity, thermal resistance and surface appearance.

GENERAL

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Additive	• UV Stabilizer
Key Benefits	• Good Flow • Good Surface Finish • Good Mold Release • Good UV Resistance
Applications	• Consumer and Industrial applications • Outdoors activities
Certification/Compliance	• EC 1907/2006 (REACH)
Colors Available	• Grey
Forms	• Pellets
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA66/6-GF20

Mechanical	Dry Unit	Test Method
Tensile Stress (Break, 23°C)	135 MPa	ISO 527-2/1A
Tensile Strain (Break, 23°C)	2.5 %	ISO 527-2
Charpy Notched Impact Strength (23°C)	4.0 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	35 kJ/m ²	ISO 179/1eU

Thermal	Dry Unit	Test Method
Melting Temperature	242 °C	ISO 11357-3

PROCESSING

Injection	Dry Unit
Drying Temperature	80 °C
Suggested Max Moisture	0.20 %
Rear Temperature	255 to 265 °C
Middle Temperature	260 to 270 °C
Front Temperature	270 to 280 °C
Mold Temperature	70 to 100 °C



Injection Notes

The material is supplied in airtight bags, ready for use. In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment, dew point mini -20°C. Recommended time 2-4h

Injection Advice:

- For reinforced polyamides, Solvay recommends the use of steel with a high content of carbon, and purified for polishing, to avoid or limit the abrasion. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (DIN Norm) or X160CrMoV12 (EN Norm) - 1.2601 /1.2379 (DIN Norm). In the case of high requirements on surface quality a mould temperature of up to 120°C can be considered.
- The processing parameters like processing temperatures are a recommendation and can be adjusted in function of injection machine size, part geometry / design

DISCLAIMER

The information contained in this document is given in good faith based on our current knowledge. It is only an indication and it is in no way binding. This information must on no account be used as a substitutive for necessary prior tests which alone can ensure that a product is suitable for a given use. ANY WARRANTY OF PRODUCT PERFORMANCE, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS EXPRESSLY EXCLUDED. Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorizations. Users are requested to check that they are in possession of the latest version of this document, and Solvay is at their disposal to supply any additional information.



SAFETY INFORMATION

Detailed information regarding safety are available on the safety data sheet (SDS). SDS is sent with the first material order or available by contacting our customer services

REGULATIONS COMPLIANCE

This product is not intended to be used for the following regulated market: food contact, drinking water, toys, cosmetics or medical devices.

Grades produced or imported in Europe comply with REACH directive 1907/2006/EC as amended.

CUSTOMER SERVICES

Our customer services are not only concerned with manufacturing and supply of Engineering Plastics products. We are available to assist our customers in finding technical solutions that meet their requirements. Specific support is in particular offered on:

- Material selection
- Material testing
- Parts design advice, training for design engineers
- Part testing
- Design simulation
- Processing through different technologies
- Assembly and post-processing technology expertise
- Parts optimization through Computer Aided Design

You can find more information on Solvay Product range on our internet product finder at the following address: <http://www.technyl.com>

Notes

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

