TECHNYL®

TECHNYL® B 216 GREY 282 NV

TECHNICAL DATA SHEET

Revised: January, 2019

TECHNYL® B 216 Grey 282 NV is an unreinforced copolyamide 66/6, medium viscosity, for injection moulding. This grade offers an excellent combination between impact resistance, rigidity, thermal resistance and surface appearance.

GENERAL

Material Status	• Commercial: Discontinued	
Availability	• Africa & Middle East	• Europe
Key Benefits	• Good Flow • Good Mold Release	• Good Surface Finish
Applications	• Automotive applications • Consumer and Industrial applications	• Safety belts
Certification/Compliance	• EC 1907/2006 (REACH)	
Colors Available	• Black • Grey	• Natural Color
Forms	• Pellets	
Processing Method	• Injection Molding	
Resin ID (ISO 1043)	• PA66/6	

PROPERTIES

Typical values of properties are for Natural grades

Physical	Dry	Unit	Test Method
Water Absorption (24 hr, 23°C)	1.6	%	ISO 62
Density	1.14	g/cm³	ISO 1183/A

Mechanical	Dry	Unit	Test Method
Tensile Modulus (23°C)	3000	MPa	ISO 527-2/1A
Tensile Stress			ISO 527-2/1A
Yield, 23°C	85	MPa	
Break, 23°C	75	MPa	
Tensile Strain			ISO 527-2
Yield, 23°C	3.6	%	
Break, 23°C	30	%	
Flexural Modulus (23°C)	3000	MPa	ISO 178
Flexural Stress (23°C)	125	MPa	ISO 178
Charpy Notched Impact Strength (23°C)	5.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Notched Izod Impact Strength (23°C)	5.0	kJ/m²	ISO 180

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Thermal	Dry	Unit	Test Method
Heat Deflection Temperature			ISO 75-2/Af
1.8 MPa, Unannealed	67	°C	
Melting Temperature	242	°C	ISO 11357-3

Electrical	Dry	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength (2.00 mm)	26	kV/mm	IEC 60243-1
Relative Permittivity	3.00		IEC 60250
Dissipation Factor	0.030		IEC 60250
Comparative Tracking Index			IEC 60112
Solution A	600	V	
Solution B	575	V	

Flammability	Dry	Unit	Test Method
Flame Rating			UL 94
1.6 mm	HB		
3.2 mm	V-2		

PROCESSING

Injection	Dry	Unit
Drying Temperature	80	°C
Suggested Max Moisture	0.20	%
Rear Temperature	250 to 260	°C
Middle Temperature	255 to 265	°C
Front Temperature	265 to 275	°C
Mold Temperature	60 to 80	°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 unfilled polyamides, Solvay recommends the use of high alloy steel with a low chromium content. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (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

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.