

TECHNYL® A 206 NATURAL Z is an unreinforced polyamide PA66, medium viscosity, for injection moulding. This grade offers two main advantages: its good resilience and its excellent filling quality of moulds.

GENERAL

Material Status	• Commercial: Active	
Availability	• Africa & Middle East	• Europe
Key Benefits	• Good Flow • Good Mold Release	• Good Surface Finish
Applications	• Automotive applications • Care & life style appliances • Consumer and Industrial applications	• Fans and shrouds • Furnitures • Structural and Casing parts
Certification/Compliance	• EC 1907/2006 (REACH)	• UL QMFZ2
RoHS Compliance	• RoHS Compliant	
Colors Available	• Natural Color	
Forms	• Pellets	
Processing Method	• Injection Molding	
Resin ID (ISO 1043)	• PA66	

PROPERTIES

Typical values of properties are for Natural grades

Physical	Dry	Conditioned	Unit	Test Method
Molding Shrinkage				ISO 294-4
Across Flow	1.8		%	
Flow	1.8		%	
Water Absorption (24 hr, 23°C)	1.2		%	ISO 62
Density	1.14		g/cm³	ISO 1183/A

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3100	1700	MPa	ISO 527-2/1A
Tensile Stress				ISO 527-2/1A
Yield, 23°C	86	60	MPa	
Break, 23°C	56	50	MPa	
Tensile Strain (Yield, 23°C)	5.0	18	%	ISO 527-2
Flexural Modulus (23°C)	2900	1400	MPa	ISO 178
Flexural Stress (23°C)	120	60.0	MPa	ISO 178
Charpy Notched Impact Strength (23°C)	4.5	14	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break			ISO 179/1eU
Notched Izod Impact Strength (23°C)	5.0	15	kJ/m²	ISO 180

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature 1.8 MPa, Unannealed	90		°C	ISO 75-2/Af
Melting Temperature	263		°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Electric Strength				IEC 60243-1
23°C, 0.800 mm	35		kV/mm	
23°C, 2.00 mm	22		kV/mm	
Relative Permittivity (23°C, 2.00 mm, 1 MHz)	3.50			IEC 60250
Dissipation Factor (1 MHz)	0.033			IEC 60250
Comparative Tracking Index (Solution A)	600	600 V		IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.6 mm	V-2			
3.2 mm	V-2			

PROCESSING

Injection	Dry Unit
Drying Temperature	80 °C
Suggested Max Moisture	0.20 %
Rear Temperature	265 to 275 °C
Middle Temperature	270 to 280 °C
Front Temperature	280 to 285 °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

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.

This grade complies with ROHS Directive 2011/65/EU and 2015/863 as amended.

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.