

TECHNYL® B 216 GREY 282 NV

Polyamide 66/6 Copolymer
Solvay Engineering Plastics

Message:

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 Information				
UL YellowCard		E44716-235606		
Features		Good liquidity		
		Good demoulding performance		
		Excellent appearance		
Uses		Industrial application		
		Application in Automobile Field		
		Consumer goods application field		
Agency Ratings		EC 1907/2006 (REACH)		
Appearance		Black		
		Grey		
		Natural color		
Forms		Particle		
Processing Method		Injection molding		
Resin ID (ISO 1043)		PA66/6		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183/A
Water Absorption (23°C, 24 hr)	1.6	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3000	1100	MPa	ISO 527-2/1A
Tensile Stress				ISO 527-2/1A
Yield, 23°C	85.0	50.0	MPa	ISO 527-2/1A
Fracture, 23°C	75.0	60.0	MPa	ISO 527-2/1A
Tensile Strain				ISO 527-2
Yield, 23°C	3.6	25	%	ISO 527-2
Fracture, 23°C	30	--	%	ISO 527-2
Flexural Modulus (23°C)	3000	1200	MPa	ISO 178
Flexural Stress (23°C)	125	50.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength (23°C)	5.0	16	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break	--		ISO 179/1eU
Notched Izod Impact (23°C)	5.0	16	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	67.0	--	°C	ISO 75-2/Af
Melting Temperature	242	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+15	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+15	ohms · cm	IEC 60093
Dielectric Strength (2.00 mm)	26	24	kV/mm	IEC 60243-1
Relative Permittivity	3.00	3.20		IEC 60250
Dissipation Factor	0.030	0.10		IEC 60250
Comparative Tracking Index				IEC 60112
Solution a	600	600	V	IEC 60112
Solution B	575	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.6 mm	HB	--		UL 94
3.2 mm	V-2	--		UL 94
Oxygen Index	24	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	250 - 260		°C	
Middle Temperature	255 - 265		°C	
Front Temperature	265 - 275		°C	
Mold Temperature	60 - 80		°C	
Injection instructions				

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 polyamide, Solvay recommends the use of high alloy steel with a weak chromium content. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (DIN Norm). For Mould Temperature, in the case of parts where the surface roughness is required we can recommend a temperature of 90°C to 120°C with an optimum at 105°C.

The processing parameters like processing temperatures are a recommendation and can be adjusted in function of injection machine size, part geometry / design

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