

TECHNYL® A 216 V33 GREY 3067

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYL® A 216 V33 Grey 3067 is a polyamide 66, reinforced with 33% of glass fibre, for injection moulding. This grade offers an excellent combination between thermal and mechanical properties.

General Information				
UL YellowCard		E44716-100316404		
Filler / Reinforcement		Glass fiber reinforced material, 33% filler by weight		
Features		Good dimensional stability		
		Good liquidity		
		Good demoulding performance		
Uses		Power/other tools		
		Industrial application		
		Consumer goods application field		
Agency Ratings		UL QMFZ2		
Appearance		Grey		
		Natural color		
Forms		Particle		
Processing Method		Injection molding		
Resin ID (ISO 1043)		PA66-G33		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.39	--	g/cm ³	ISO 1183/A
Water Absorption				ISO 62
23°C, 24 hr	0.78	--	%	ISO 62
Saturated, 23°C	5.5	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.6	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	10500	7900	MPa	ISO 527-2/1A
Tensile Stress (Break, 23°C)	150	135	MPa	ISO 527-2/1A
Tensile Strain (Break, 23°C)	3.0	4.0	%	ISO 527-2
Flexural Modulus (23°C)	8800	6200	MPa	ISO 178
Flexural Stress (23°C)	290	190	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	15	kJ/m ²	ISO 179/1eA

Charpy Unnotched Impact Strength (23°C)	70	77	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	12	17	kJ/m ²	ISO 180
Unnotched Izod Impact Strength (23°C)	95	--	kJ/m ²	ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	255	--	°C	ISO 75-2/Af
Melting Temperature	262	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	6.0E+15	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	2.0E+15	ohms · cm	IEC 60093
Dielectric Strength (2.00 mm)	40	30	kV/mm	IEC 60243-1
Relative Permittivity	3.75	4.00		IEC 60250
Dissipation Factor	0.010	0.11		IEC 60250
Comparative Tracking Index				IEC 60112
Solution a	600	600	V	IEC 60112
Solution B	500	500	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.6 mm)	HB	--		UL 94
Glow Wire Flammability Index				IEC 60695-2-12
1.6 mm	650	--	°C	IEC 60695-2-12
3.2 mm	750	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.6 mm)	650	--	°C	IEC 60695-2-13
Oxygen Index	23	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	270 - 280		°C	
Middle Temperature	275 - 285		°C	
Front Temperature	280 - 290		°C	
Mold Temperature	70 - 100		°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 reinforced polyamide, 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). 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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