

TECHNYL® C 236 V35 BLACK Z

Polyamide 6
Solvay Engineering Plastics

Message:

TECHNYL® C 236 V35 Black Z is a polyamide 6 reinforced with 35% of glass fiber, with improved impact resistance, for injection moulding. This grade offer a high impact strength and good mechanical properties.

General Information			
UL YellowCard	E44716-476867		
Filler / Reinforcement	Glass fiber reinforced material, 35% filler by weight		
Additive	Impact modifier		
Features	Impact resistance, good		
	Good liquidity		
	Good demoulding performance		
Uses	Wire and cable applications		
	Industrial application		
	Consumer goods application field		
Agency Ratings	EC 1907/2006 (REACH)		
	UL QMFZ2		
RoHS Compliance	RoHS compliance		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PA6-GF35		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183/A
Water Absorption (23°C, 24 hr)	0.90	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	9700	MPa	ISO 527-2/1A
Tensile Stress (Break, 23°C)	160	MPa	ISO 527-2/1A
Tensile Strain (Break, 23°C)	3.6	%	ISO 527-2
Flexural Modulus (23°C)	8600	MPa	ISO 178
Flexural Stress (23°C)	243	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	86	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method

Melting Temperature	222	°C	ISO 11357-3
Flammability	Nominal Value		Test Method
Flame Rating (0.8 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80	°C	
Suggested Max Moisture	0.20	%	
Rear Temperature	230 - 235	°C	
Middle Temperature	235 - 240	°C	
Front Temperature	240 - 250	°C	
Mold Temperature	60 - 90	°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.

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