

TECHNYL® AZ 536 V20 BLACK

Polyphenylene Ether + PA 66

Solvay Engineering Plastics

Message:

TECHNYL® AZ 536 V20 Black is a polyamide blend of polamide 66 and polyphenyl ethers (PPE), reinforced with 20% of glass fiber, for extrusion. This grade offers a reduced thermal conductivity in comparison to commonly used materials such as polyamide 66 glass fiber reinforced.

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight			
Features	High Melt Strength			
	Rigid, good			
Uses	Industrial application			
	Consumer goods application field			
Agency Ratings	EC 1907/2006 (REACH)			
RoHS Compliance	RoHS compliance			
Appearance	Black			
Forms	Particle			
Processing Method	Extrusion			
Resin ID (ISO 1043)	P66+PPE-GF20			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.25	--	g/cm ³	ISO 1183/A
Water Absorption (23°C, 24 hr)	1.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	7180	--	MPa	ISO 527-2/1A
Tensile Stress				ISO 527-2/1A
Yield, 23°C	122	--	MPa	ISO 527-2/1A
Fracture, 23°C	122	--	MPa	ISO 527-2/1A
Tensile Strain				ISO 527-2
Yield, 23°C	2.4	--	%	ISO 527-2
Fracture, 23°C	2.4	--	%	ISO 527-2
Flexural Modulus (23°C)	5020	--	MPa	ISO 178
Flexural Stress (23°C)	157	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.4	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	42	--	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	6.2	--	kJ/m ²	ISO 180

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	236	--	°C	ISO 75-2/Bf
Melting Temperature	262	--	°C	ISO 11357-3
Injection	Dry	Unit		
Drying Temperature	110		°C	
Suggested Max Moisture	0.030		%	
Rear Temperature	270 - 290		°C	
Middle Temperature	270 - 290		°C	
Front Temperature	270 - 290		°C	
Mold Temperature	270 - 290		°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 -35°C. Recommended time 8h

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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