TECHNYL® A 216 V30 BLACK FA

Polyamide 66

Solvay Engineering Plastics

Message:

TECHNYL® A 216 V30 Black FA is a polyamide 66, reinforced with 30% of glass fiber, for injection moulding. This grade offers an excellent combination between thermal and mechanical properties. It is designed to be used in food contact applications.

General Information	
UL YellowCard	E44716-235561
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight
Features	Good dimensional stability Good liquidity Compliance of Food Exposure Good demoulding performance
Uses	Electrical appliances
Agency Ratings	EC 1907/2006 (REACH) UL QMFZ2
RoHS Compliance	RoHS compliance
Appearance	Black Natural color
Forms	Particle
Processing Method	Injection molding
Resin ID (ISO 1043)	PA66-GF30

Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm³	ISO 1183/A
Water Absorption (23°C, 24 hr)	0.80	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (23°C)	10000	7500	MPa	ISO 527-2/1A
Tensile Stress (Break, 23°C)	190	135	MPa	ISO 527-2/1A
Tensile Strain (Break, 23°C)	3.0	--	%	ISO 527-2
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	12	16	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	80	95	kJ/m²	ISO 179/1eU
Notched Izod Impact (23°C)	11	16	kJ/m²	ISO 180
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**

Heat Deflection Temperature				
0.45 MPa, not annealed	260	--	°C	ISO 75-2/Bf
1.8 MPa, not annealed	255	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index				IEC 60112
Solution a	600	600	V	IEC 60112
Solution B	500	500	V	IEC 60112
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 2-4hInjection 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

Recommended distributors for this material

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