TECHNYL® A 238 V13 BLACK 21 N

Polyamide 66

Solvay Engineering Plastics

Message:

TECHNYL® A 238 V13 Black 21N is a polyamide 6.6, reinforced with 13% of glass fiber, heat stabilized, impact modified, for injection moulding. This grade offers excellent combination between rigidity and impact resistance at ambient temperature.

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 13% filler by weight
Additive	Impact modifier heat stabilizer
Features	Heat Stabilized - Inorganic Impact resistance, good Good demoulding performance
Uses	Industrial application Furniture Fasteners Connector Consumer goods application field
Agency Ratings	EC 1907/2006 (REACH)
RoHS Compliance	RoHS compliance
Appearance	Black Natural color
Forms	Particle
Processing Method	Injection molding
Resin ID (ISO 1043)	PA66-GF13

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	5500	3650	MPa	ISO 527-2/1A
Tensile Stress (Yield, 23°C)	100	60.0	MPa	ISO 527-2/1A
Tensile Strain (Yield, 23°C)	4.0	8.0	%	ISO 527-2

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	8.0	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	65	60	kJ/m^2	ISO 179/1eU
Notched Izod Impact (23°C)	8.0	10	kJ/m^2	ISO 180

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	228	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
Flammability	**Dry**	**Conditioned**		**Test Method**
Flame Rating (1.6 mm)	HB	--		UL 94
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

Susheng Import & Export Trading Co.,Ltd.

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Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

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