TECHNYL® A 218HP V30 BLACK 21N

Polyamide 66

Solvay Engineering Plastics

Message:

TECHNYL® A 218HP V30 Black 21N is a polyamide 6.6, reinforced with 30% of glass fiber, heat stabilized, for injection moulding. This grade is designed to offer a long term heat resistance and is suitable to work in environments characterized by a very high temperature. (200°C)

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight			
Additive	heat stabilizer			
Features	Heat Stabilized - Inorganic Good liquidity			
Uses	Application in Automobile Field			
Agency Ratings	EC 1907/2006 (REACH)			
RoHS Compliance	RoHS compliance			
Appearance	Black			
Forms	Particle			
Processing Method	Injection molding			
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)			
Resin ID (ISO 1043)	PA66-GF30			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.35	--	g/cm³	ISO 1183/A
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (23°C)	10000	6600	MPa	ISO 527-2/1A
Tensile Stress (Break, 23°C)	170	110	MPa	ISO 527-2/1A
Tensile Strain (Break, 23°C)	2.6	6.5	%	ISO 527-2
Flexural Modulus (23°C)	9000	5900	MPa	ISO 178
Flexural Stress (23°C)	260	180	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	14	18	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	78	77	kJ/m²	ISO 179/1eU
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, not annealed	258	--	°C	ISO 75-2/Bf
1.8 MPa, not annealed	245	--	°C	ISO 75-2/Af
Melting Temperature	262	--	°C	ISO 11357-3
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.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

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