TECHNYL® A 218HPS V35 BLACK 21N

Polyamide 66/6 Copolymer

Solvay Engineering Plastics

Message:

TECHNYL® A 218HPS V35 is a polyamide blend of polyamide 6.6 polyamide 6 reinforced with 35% of glass fiber, high 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. (210°C)

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 35% filler by weight		
Additive	heat stabilizer		
Features	Heat Stabilized - Inorganic Excellent appearance High 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+PA6-GF35		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.42	g/cm³	ISO 1183/A
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	11600	MPa	ISO 527-2/1A
Tensile Stress (Break, 23°C)	196	MPa	ISO 527-2/1A
Tensile Strain (Break, 23°C)	3.4	%	ISO 527-2
Flexural Modulus (23°C)	9880	MPa	ISO 178
Flexural Stress (23°C)	306	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	13	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	88	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	247	°C	ISO 75-2/Bf
1.8 MPa, not annealed	224	°C	ISO 75-2/Af
Melting Temperature	248	°C	ISO 11357-3
Injection	**Nominal Value**	**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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