

# TECHNYL® A 718 V30 NATURAL

Polyamide 66  
Solvay Engineering Plastics

Message:

TECHNYL® A 718 V30 Natural is a chemically recycled polyamide 66, reinforced with 30% of glass fiber, heat stabilized, for injection moulding. This grade offers an excellent combination between thermal and mechanical properties.

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 30% filler by weight		
Additive		heat stabilizer		
Features		Heat Stabilized - Inorganic		
Uses		Large household appliances and small household appliances		
RoHS Compliance		RoHS compliance		
Appearance		Black		
		Natural color		
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	1.37	--	g/cm <sup>3</sup>	ISO 1183/A
Water Absorption (23°C, 24 hr)	0.75	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	9000	6000	MPa	ISO 527-2/1A
Tensile Stress (Break, 23°C)	155	90.0	MPa	ISO 527-2/1A
Tensile Strain (Break, 23°C)	1.9	5.5	%	ISO 527-2
Flexural Modulus (23°C)	8200	5500	MPa	ISO 178
Flexural Stress (23°C)	230	130	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	6.5	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength				
23°C	38	48	kJ/m <sup>2</sup>	ISO 179/1eU
23°C	35	--	kJ/m <sup>2</sup>	ISO 179/1fU
Notched Izod Impact (23°C)	5.0	6.5	kJ/m <sup>2</sup>	ISO 180
Unnotched Izod Impact Strength (23°C)	35	42	kJ/m <sup>2</sup>	ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	240	--	°C	ISO 75-2/Af
Melting Temperature	255	--	°C	ISO 11357-3, ISO 3146
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 2-4h

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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#### Recommended distributors for this material

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