TECHNYL® A 218W V30 NATURAL

Polyamide 66

Solvay Engineering Plastics

Message:

TECHNYL® A 218W V30 Natural is a polyamide 66, reinforced with 30% of glass fibre, heat stabilized, for injection moulding. This product is available in natural color.

General Information	
UL YellowCard	E44716-235573
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
Additive	Heat Stabilizer
Features	Heat Stabilized Hydrolysis Resistant
Uses	Connectors Electrical/Electronic Applications Valves/Valve Parts
Agency Ratings	UU 453/2010/EC
RoHS Compliance	RoHS Compliant
Appearance	Natural Color
Processing Method	Injection Molding
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1) Viscosity vs. Shear Rate (ISO 11403-2)
Part Marking Code (ISO 11469)	>PA66-GF30<

Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	0.80	--	%	
Flow	0.50	--	%	
Water Absorption (Saturation, 23°C)	0.80	--	%	ISO 62
Molding Shrinkage Isotropy	0.620	--		Internal Method

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10000	6600	MPa	ISO 527-2/1A
Tensile Stress (Break)	190	135	MPa	ISO 527-2/1A
Tensile Strain (Break)	3.2	4.0	%	ISO 527-2/1A
Flexural Modulus				

--	8600	--	MPa	ASTM D790
--	9000	6500	MPa	ISO 178
Flexural Stress	270	--	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	11	15	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	85	95	kJ/m^2	ISO 179/1eU
Notched Izod Impact				
23°C	110	--	J/m	ASTM D256
23°C	10	17	kJ/m^2	ISO 180/1A
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, Unannealed	250	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	254	--	°C	ISO 75-2/Af
Melting Temperature	262	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 85°C	2.8E-5	--	cm/cm/°C	
Transverse : 23 to 85°C	2.8E-5	--	cm/cm/°C	
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	1.0E+14	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Electric Strength	35	40	kV/mm	IEC 60243-1
Relative Permittivity	3.70	4.30		IEC 60250
Dissipation Factor	0.020	0.080		IEC 60250
Comparative Tracking Index (Solution A)	600	600	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flame Rating (1.60 mm)	HB	--		UL 94
Glow Wire Flammability Index (1.60 mm)	700	--	°C	IEC 60695-2-12
Injection	**Dry**	**Unit**		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	265 to 275		°C	
Middle Temperature	270 to 280		°C	
Front Temperature	280 to 290		°C	
Mold Temperature	70.0 to 100		°C	

Recommended distributors for this material

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