

TECHNYL® A 30H1 V30 NATURAL

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYL® A 30H1 V30 Natural is a brominated flame retardant polyamide 66, reinforced with 30% of glass fibre, for injection moulding. This product is available in natural color.

General Information				
UL YellowCard		E44716-235584		
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Flame Retardant		
Features		Flame Retardant		
		Good Electrical Properties		
		Good Processability		
Uses		Appliances		
		Industrial Applications		
		Switches		
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 FR(17)<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.57	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	0.95	--	%	
Flow	0.60	--	%	
Water Absorption (Saturation, 23°C)	0.80	--	%	ISO 62
Molding Shrinkage Isotropy	0.630	--		Internal Method
Fire and Smoke F Index	I3/F3	--		NF F16-101
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10000	7000	MPa	ISO 527-2/1A
Tensile Strength				

Break	140	--	MPa	ASTM D638
Break	130	95.0	MPa	ISO 527-2/1A
Tensile Elongation				
Break	2.5	--	%	ASTM D638
Break	2.2	3.5	%	ISO 527-2/1A
Flexural Modulus				
--	9500	--	MPa	ASTM D790
--	9500	7000	MPa	ISO 178
Flexural Strength				
--	200	--	MPa	ASTM D790
--	200	170	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.5	12	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	42	50	kJ/m ²	ISO 179/1eU
Notched Izod Impact				
23°C	120	--	J/m	ASTM D256
23°C	10	13	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
1.8 MPa, Unannealed	227	--	°C	ASTM D648
1.8 MPa, Unannealed	226	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	--	ohms	IEC 60093
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Electric Strength	42	40	kV/mm	IEC 60243-1
Relative Permittivity	3.30	3.60		IEC 60250
Dissipation Factor	0.010	0.050		IEC 60250
Comparative Tracking Index				IEC 60112
Solution A	450	600	V	
Solution B	400	500	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm	V-0	--		
1.60 mm	V-0	--		
3.20 mm	V-0	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.800 mm	960	--	°C	
1.60 mm	960	--	°C	

3.20 mm	960	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.800 mm	800	--	°C	
1.60 mm	825	--	°C	
Oxygen Index	31	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	270 to 280		°C	
Middle Temperature	275 to 285		°C	
Front Temperature	280 to 290		°C	
Mold Temperature	70.0 to 100		°C	

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