

TECHNYL® A 21T3 V25

Polyamide 66
Solvay Engineering Plastics

Message:

Flame retardant polyamide 66, reinforced with 25% of glass fibre, heat stabilised, for injection moulding.

General Information				
UL YellowCard		E44716-100316402	E44716-101495760	
Filler / Reinforcement		Glass Fiber,25% Filler by Weight		
Additive		Flame Retardant		
		Heat Stabilizer		
Features		Flame Retardant		
		Heat Stabilized		
Uses		Connectors		
		Electrical/Electronic Applications		
		Thin-walled Parts		
Appearance		Black		
		Grey		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.38	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	0.90	--	%	
Flow	0.50	--	%	
Water Absorption (23°C, 24 hr)	1.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8160	5100	MPa	ISO 527-2/1A
Tensile Stress (Break)	136	81.0	MPa	ISO 527-2/1A
Tensile Strain (Break)	2.7	6.2	%	ISO 527-2/1A
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	8.0	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	65	78	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	8.0	10	kJ/m ²	ISO 180/1A

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	250	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
CLTE - Transverse (23 to 85°C)	3.0E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	5.2E+13	--	ohms	IEC 60093
Volume Resistivity	3.2E+14	--	ohms·cm	IEC 60093
Electric Strength	25	--	kV/mm	IEC 60243-1
Relative Permittivity	4.30	--		IEC 60250
Dissipation Factor	0.020	--		IEC 60250
Comparative Tracking Index (Solution A)	550	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm	V-2	--		
1.60 mm	V-0	--		
3.20 mm	V-0	--		
Glow Wire Flammability Index (1.60 mm)	960	--	°C	IEC 60695-2-12
Oxygen Index	27	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	260 to 270		°C	
Middle Temperature	270 to 280		°C	
Front Temperature	280 to 290		°C	
Mold Temperature	60.0 to 80.0		°C	

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