

TECHNYL® A 20 V25 NATURAL

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYL® A 20 V25 is a 25% glass fiber reinforced Red Phosphorous flame retarded grade based on a polyamide 66 resin. This product is heat stablised for optimised injection moulding. This product is available in Natural & Black.

General Information				
Filler / Reinforcement		Glass Fiber,25% Filler by Weight		
Additive		Flame Retardant		
		Heat Stabilizer		
Features		Flame Retardant		
		Heat Stabilized		
Uses		Electrical/Electronic Applications		
		Industrial Applications		
		Insulation		
		Thin-walled Parts		
Agency Ratings		UU 453/2010/EC		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
		Natural Color		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA66-GF25 FR(52)<		
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)				ISO 62
Water Absorption	0.75	--	%	
Molding Shrinkage Isotropy				Internal Method
Isotropy	0.550	--		
Fire and Smoke F Index				NF F16-101
F Index	I3/F3	--		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9000	6500	MPa	ISO 527-2/1A
Tensile Stress (Break)	140	105	MPa	ISO 527-2/1A
Tensile Strain (Break)	2.0	4.1	%	ISO 527-2/1A

Flexural Modulus	7500	6000	MPa	ISO 178
Flexural Stress	250	155	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	9.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	50	60	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	8.0	9.0	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 - Flow (23 to 85°C)	3.0E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Electric Strength	25	25	kV/mm	IEC 60243-1
Relative Permittivity	3.40	4.00		IEC 60250
Dissipation Factor	0.020	0.050		IEC 60250
Comparative Tracking Index (Solution A)	400	--	V	IEC 60112
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 (1.60 mm)	960	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.60 mm)	725	--	°C	IEC 60695-2-13
Oxygen Index	31	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	270 to 275		°C	
Middle Temperature	275 to 280		°C	
Front Temperature	280 to 285		°C	
Mold Temperature	70.0 to 100		°C	

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