

TECHNYL® A 218 V50 NATURAL

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYL® A 218 V50 is a polyamide 66, reinforced with 50% of glass fibre, heat stabilized, for injection moulding. This product is available in natural and black colors.

General Information				
UL YellowCard		E44716-235572		
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
Agency Ratings		UU 453/2010/EC		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
		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-GF50<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.57	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	0.80	--	%	
Flow	0.44	--	%	
Water Absorption (23°C, 24 hr)	0.60	--	%	ISO 62
Molding Shrinkage Isotropy	0.550	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	16200	12500	MPa	ISO 527-2/1A
Tensile Strength				
Break	220	--	MPa	ASTM D638
Break	240	175	MPa	ISO 527-2/1A
Tensile Elongation				
Break	2.0	--	%	ASTM D638
Break	2.0	2.5	%	ISO 527-2/1A
Flexural Modulus				

--	13800	--	MPa	ASTM D790
--	13500	10000	MPa	ISO 178
Flexural Strength	350	--	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	16	18	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	95	97	kJ/m ²	ISO 179/1eU
Notched Izod Impact				
23°C	180	--	J/m	ASTM D256
23°C	15	17	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	255	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	255	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
CLTE - Flow (23 to 85°C)	1.5E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	6.0E+14	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Electric Strength	35	30	kV/mm	IEC 60243-1
Relative Permittivity	3.70	4.00		IEC 60250
Dissipation Factor	0.010	0.11		IEC 60250
Comparative Tracking Index (Solution A)	600	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm	HB	--		
1.60 mm	HB	--		
3.20 mm	HB	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.800 mm	650	--	°C	
1.60 mm	650	--	°C	
3.20 mm	700	--	°C	
Oxygen Index	23	--	%	ISO 4589-2
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	80.0 to 110		°C	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

