

TECHNYL® A 218 V40 NATURAL

Polyamide 66
Solvay Engineering Plastics

Message:
Polyamide PA66, reinforced with 40% of glass fibre, heat stabilised for injection moulding.

General Information				
Filler / Reinforcement		Glass Fiber,40% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
Uses		Automotive Applications		
		Power/Other Tools		
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-GF40<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.46	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	0.70	--	%	
Flow	0.40	--	%	
Water Absorption (23°C, 24 hr)	0.70	--	%	ISO 62
Molding Shrinkage Isotropy	0.570	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	13000	9900	MPa	ISO 527-2/1A
Tensile Stress (Break)	225	165	MPa	ISO 527-2/1A
Tensile Strain (Break)	2.0	3.0	%	ISO 527-2/1A
Flexural Modulus	10800	7800	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	15	19	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	97	98	kJ/m ²	ISO 179/1eU

Notched Izod Impact Strength	14	18	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	255	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
CLTE - Flow (23 to 85°C)	2.0E-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)	450	450	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Oxygen Index	23	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	260 to 280		°C	
Middle Temperature	270 to 300		°C	
Front Temperature	280 to 310		°C	
Mold Temperature	60.0 to 90.0		°C	

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