

TECHNYL® A 218 S40 BLACK 21 N

Polyamide 66
Solvay Engineering Plastics

Message:
Polyamide 66, reinforced with 40% of glass spheres, heat stabilized, for injection moulding.

General Information				
Filler / Reinforcement		Glass Bead,40% Filler by Weight		
Additive		Heat Stabilizer		
Features		Good Surface Finish		
		Heat Stabilized		
		Low Warpage		
Appearance		Black		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA66-GB40<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.47	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	1.4	--	%	
Flow	1.4	--	%	
Water Absorption (23°C, 24 hr)	0.70	--	%	ISO 62
Molding Shrinkage Isotropy	1.00	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5000	3000	MPa	ISO 527-2/1A
Tensile Stress				ISO 527-2/1A
Yield	90.0	55.0	MPa	
Break	85.0	50.0	MPa	
Tensile Strain				ISO 527-2/1A
Yield	4.0	20	%	
Break	15	35	%	
Flexural Modulus	4700	2450	MPa	ISO 178
Flexural Stress	150	75.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	4.0	7.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	25 kJ/m ²	No Break		ISO 179/1eU
Notched Izod Impact Strength	3.0	7.0	kJ/m ²	ISO 180/1A

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	100	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
CLTE - Transverse (23 to 85°C)	6.0E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	5.0E+14	5.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Electric Strength	30	26	kV/mm	IEC 60243-1
Relative Permittivity	4.00	5.00		IEC 60250
Dissipation Factor	0.010	0.11		IEC 60250
Comparative Tracking Index (Solution A)	450	400	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Glow Wire Flammability Index (1.60 mm)	650	--	°C	IEC 60695-2-12
Oxygen Index	26	--	%	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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