

TECHNYL® A 218 S30 BLACK 21 N

Polyamide 66
Solvay Engineering Plastics

Message:
Polyamide PA66, reinforced with 30% of glass spheres, heat stabilised, for injection moulding.

General Information				
Filler / Reinforcement		Glass Bead,30% Filler by Weight		
Additive		Heat Stabilizer		
Features		Good Surface Finish		
		Heat Stabilized		
		Low Warpage		
Uses		Bearings		
		Housings		
Appearance		Black		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA66-GB30<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm ³	ISO 1183/A
Water Absorption (23°C, 24 hr)	0.75	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	4500	2500	MPa	ISO 527-2/1A
Tensile Stress				ISO 527-2/1A
Yield	80.0	--	MPa	
Break	80.0	60.0	MPa	
Tensile Strain				ISO 527-2/1A
Yield	4.0	--	%	
Break	9.0	12	%	
Flexural Modulus	3850	1900	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	3.5	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	20 kJ/m ²	No Break		ISO 179/1eU
Notched Izod Impact Strength	2.5	5.0	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature	263	--	°C	ISO 11357-3

Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	5.0E+14	--	ohms	IEC 60093
Volume Resistivity	5.0E+14	--	ohms·cm	IEC 60093
Electric Strength	30	26	kV/mm	IEC 60243-1
Dissipation Factor	0.020	0.11		IEC 60250
Comparative Tracking Index (Solution A)	450	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Oxygen Index	25	--	%	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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