

TECHNYL® A 222 BLACK 1N

Polyamide 66
Solvay Engineering Plastics

Message:
Unreinforced polyamide PA66, medium viscosity, heat stabilized, for injection moulding, fast crystallisation , for short cycles .

General Information				
Additive		Heat Stabilizer		
Features		Fast Molding Cycle		
		Good Dimensional Stability		
		Good Stiffness		
		Heat Stabilized		
		Medium Viscosity		
Uses		Automotive Applications		
		Connectors		
		Electrical/Electronic Applications		
Appearance		Black		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA66<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	1.5	--	%	
Flow	1.4	--	%	
Water Absorption (23°C, 24 hr)	1.1	--	%	ISO 62
Molding Shrinkage Isotropy	0.930	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3200	2000	MPa	ISO 527-2/1A
Tensile Stress				ISO 527-2/1A
Yield	95.0	65.0	MPa	
Break	75.0	50.0	MPa	
Tensile Strain				ISO 527-2/1A
Yield	7.0	25	%	
Break	20	110	%	
Flexural Modulus	3100	1400	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength	4.0	12	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179/1eU
Notched Izod Impact Strength	4.0	12	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	80.0	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
CLTE - Flow (23 to 85°C)	6.5E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+14	ohms·cm	IEC 60093
Electric Strength	27	26	kV/mm	IEC 60243-1
Relative Permittivity	2.90	3.20		IEC 60250
Dissipation Factor	0.030	0.080		IEC 60250
Comparative Tracking Index				IEC 60112
Solution A	575	600	V	
Solution B	450	--	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	V-2	--		UL 94
Glow Wire Flammability Index (1.60 mm)	700	--	°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	250 to 270		°C	
Middle Temperature	260 to 280		°C	
Front Temperature	270 to 290		°C	
Mold Temperature	60.0 to 80.0		°C	

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