

TECHNYL® A 217 BLACK 1 N

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYL ® A 217 Black 1 N is an unreinforced polyamide 66, heat stabilized, standard viscosity, for injection moulding. It is available in black color.

General Information				
UL YellowCard		E44716-235564		
Additive		Heat Stabilizer		
Features		Good Chemical Resistance		
		Good Surface Finish		
		Heat Stabilized		
		High Heat Resistance		
		Low Smoke Emission		
		Metallizable		
Uses		Automotive Applications		
		Connectors		
		Electrical/Electronic Applications		
Agency Ratings		UU 453/2010/EC		
RoHS Compliance		RoHS Compliant		
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	1.9	--	%	
Flow	1.9	--	%	
Water Absorption (23°C, 24 hr)	1.3	--	%	ISO 62
Water Absorption - 30 min (100°C)	1.5	--	%	ISO 62
Molding Shrinkage Isotropy	1.00	--		Internal Method
Heat Deflection Temperature - 0.64 MPa	220	--	°C	ASTM D648
Fire and Smoke F Index	I3/F3	--		NF F16-101
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3300	1500	MPa	ISO 527-2/1A

Tensile Strength				
Yield	85.0	--	MPa	ASTM D638
Yield	88.0	60.0	MPa	ISO 527-2/1A
Break	65.0	40.0	MPa	ISO 527-2/1A
Tensile Strain				
Yield	4.5	10	%	ISO 527-2/1A
Break	30	--	%	ASTM D638
Break	20	200	%	ISO 527-2/1A
Flexural Modulus				
--	3500	--	MPa	ASTM D790
--	3100	1450	MPa	ISO 178
Flexural Strength				
--	125	--	MPa	ASTM D790
--	130	80.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.5	8.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break	No Break		ISO 179/1eU
Notched Izod Impact				
23°C	80	--	J/m	ASTM D256
23°C	4.0	10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	No Break	No Break		ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	75.0	--	°C	ASTM D648, ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
CLTE - Flow (23 to 85°C)	7.0E-5	--	cm/cm/°C	ASTM D696, ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+15	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+14	ohms·cm	IEC 60093
Electric Strength	25	22	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	600	600	V	
Solution B	450	--	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.60 mm	V-2	--		
3.20 mm	V-2	--		

Glow Wire Flammability Index				IEC 60695-2-12
0.800 mm	650	--	°C	
1.60 mm	650	--	°C	
Glow Wire Ignition Temperature (1.60 mm)				IEC 60695-2-13
Oxygen Index	26	--	%	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	60.0 to 80.0		°C	

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