

TECHNYL® A 218 BLACK 21 N

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYL® A 218 Black 21 N is an unreinforced polyamide 66, standard viscosity, heat stabilized for injection moulding. It is available in black color.

General Information				
UL YellowCard		E44716-235568		
Additive		Heat Stabilizer		
Features		Good Chemical Resistance		
		Heat Stabilized		
		High Heat Resistance		
Agency Ratings		UU 453/2010/EC		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
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<		
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
Molding Shrinkage Isotropy	1.00	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3000	1500	MPa	ISO 527-2/1A
Tensile Strength				
Yield	85.0	--	MPa	ASTM D638
Yield	90.0	60.0	MPa	ISO 527-2/1A
Break	55.0	40.0	MPa	ISO 527-2/1A
Tensile Strain				
Yield	4.0	10	%	ISO 527-2/1A
Break	30	--	%	ASTM D638
Break	50	200	%	ISO 527-2/1A

Flexural Modulus				
--	3300	--	MPa	ASTM D790
--	3000	1300	MPa	ISO 178
Flexural Strength				
--	125	--	MPa	ASTM D790
--	120	70.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.5	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break	No Break		ISO 179/1eU
Notched Izod Impact				
--	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				
0.45 MPa, Unannealed	220	--	°C	ASTM D648
0.45 MPa, Unannealed	200	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	82.0	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
CLTE - Flow (23 to 85°C)	7.0E-5	--	cm/cm/°C	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	350	--	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 (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	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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