

TECHNYL® A 208F BLACK 21 N

Polyamide 66
Solvay Engineering Plastics

Message:
Unreinforced polyamide PA66, heat stabilized, high fluidity, fast cycling grade, for injection moulding.

General Information				
UL YellowCard		E44716-100315888		
Additive		Heat Stabilizer		
Features		Fast Molding Cycle		
		Heat Stabilized		
		High Flow		
Uses		Connectors		
		Fasteners		
		Thin-walled Parts		
Appearance		Black		
		Natural Color		
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	2.0	--	%	
Flow	2.0	--	%	
Water Absorption (23°C, 24 hr)	1.2	--	%	ISO 62
Molding Shrinkage Isotropy	1.00	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3200	1600	MPa	ISO 527-2/1A
Tensile Stress				ISO 527-2/1A
Yield	85.0	50.0	MPa	
Break	60.0	40.0	MPa	
Tensile Strain (Yield)	7.0	10	%	ISO 527-2/1A
Flexural Modulus	2900	1300	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	4.5	10	kJ/m ²	ISO 179/1eA

Charpy Unnotched Impact Strength	No Break	No Break		ISO 179/1eU
Notched Izod Impact Strength	4.5	12	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	75.0	--	°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+14	4.0E+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	475	500	V	
Solution B	375	375	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.380 mm	V-2	--		
0.800 mm	V-2	--		
1.60 mm	V-2	--		
Glow Wire Flammability Index (1.60 mm)	850	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.60 mm)	650	--	°C	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	270 to 275		°C	
Middle Temperature	280 to 285		°C	
Front Temperature	285 to 290		°C	
Mold Temperature	60.0 to 80.0		°C	

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