

TECHNYL® A 218 V30 BLACK 21 NS

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYL® A 218 V30 Black 21 NS is a polyamide 66, reinforced with 30% of glass fibre, heat stabilized, for injection moulding. This product is available in black color.

General Information				
UL YellowCard		E44716-235569	E44716-235570	
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
Agency Ratings		UU 453/2010/EC		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA66-GF30<		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity				
--	0.800	--	g/cm³	ASTM D792
--	1.37	--	g/cm³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	0.80	--	%	
Flow	0.50	--	%	
Water Absorption (23°C, 24 hr)	0.80	--	%	ISO 62
Molding Shrinkage Isotropy	0.620	--		Internal Method
Fire and Smoke F Index	I2/F3	--		NF F16-101
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10000	7500	MPa	ISO 527-2/1A
Tensile Stress (Break)	190	135	MPa	ISO 527-2/1A
Tensile Elongation				
Break	3.3	--	%	ASTM D638
Break	3.0	4.0	%	ISO 527-2/1A
Flexural Modulus				
--	9000	--	MPa	ASTM D790
--	9000	6400	MPa	ISO 178
Flexural Strength				
--	290	--	MPa	ASTM D790
--	280	185	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	15	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	80	88	kJ/m ²	ISO 179/1eU
Notched Izod Impact				
23°C	120	--	J/m	ASTM D256
23°C	10	18	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	60	65	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	255	--	°C	ASTM D648, ISO 75-2/Af
Melting Temperature				
--	263	--	°C	ISO 11357-3
--	260	--	°C	ASTM D3418
CLTE				ISO 11359-2
Flow : 23 to 85°C	2.5E-5	--	cm/cm/°C	
Transverse : 23 to 85°C	2.5E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	6.0E+14	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Electric Strength	34	29	kV/mm	IEC 60243-1
Relative Permittivity	3.70	4.00		IEC 60250
Dissipation Factor	0.010	0.11		IEC 60250
Comparative Tracking Index				IEC 60112
Solution A	600	600	V	
Solution B	500	--	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Glow Wire Flammability Index (1.60 mm)	700	--	°C	IEC 60695-2-12
Oxygen Index	23	--	%	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	70.0 to 100		°C	

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