

TECHNYL® B 218 V30 BLACK 21 N

Polyamide 66/6 Copolymer
Solvay Engineering Plastics

Message:

Copolyamide PA66/6, reinforced with 30% of glass fibre, heat stabilized, for injection moulding.

General Information				
UL YellowCard		E44716-235617		
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Heat Stabilizer		
Features		Good Surface Finish		
		Heat Stabilized		
Uses		Automotive Applications		
		Handles		
		Housings		
Appearance		Black		
		Grey		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA66/6-GF30<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	0.70	--	%	
Flow	0.50	--	%	
Water Absorption (23°C, 24 hr)	0.95	--	%	ISO 62
Molding Shrinkage Isotropy	0.700	--		Internal Method
Fire and Smoke F Index - I2, F3	1	--		NF F16-101
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9800	6500	MPa	ISO 527-2/1A
Tensile Stress (Break)	185	115	MPa	ISO 527-2/1A
Tensile Strain (Break)	3.0	8.0	%	ISO 527-2/1A
Flexural Modulus	8300	4700	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	11	16	kJ/m ²	ISO 179/1eA

Charpy Unnotched Impact Strength	80	92	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	11	19	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	230	--	°C	ISO 75-2/Af
Melting Temperature	242	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	6.0E+14	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.5E+12	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	450	--	V	
Solution B	300	--	V	
Flammability	Dry	Conditioned	Unit	Test Method
Oxygen Index	23	--	%	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 270		°C	
Front Temperature	270 to 280		°C	
Mold Temperature	80.0 to 100		°C	

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