

TECHNYL® A 218HP V50 BLACK 21 N

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYL® A 218HP V50 Black 21 N is a polyamide 66, reinforced with 50% of glass fibre, heat stabilized, for injection moulding. This product is available in black color.

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
		High Heat Resistance		
		High Stiffness		
Uses		Automotive Applications		
Agency Ratings		UU 453/2010/EC		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA66-GF50<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.52	--	g/cm ³	ISO 1183/A
Molding Shrinkage				
Across Flow	0.90	--	%	ISO 294-4
Across Flow	0.50	--	%	Internal Method
Flow	0.30	--	%	Internal Method
Molding Shrinkage Isotropy	0.600	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	15000	10500	MPa	ISO 527-2/1A
Tensile Stress (Break)	200	143	MPa	ISO 527-2/1A
Tensile Strain (Break)	2.0	2.0	%	ISO 527-2/1A
Flexural Modulus				
--	13500	--	MPa	ASTM D790
--	13500	10000	MPa	ISO 178
Flexural Strength				
--	280	--	MPa	ASTM D790
--	320	230	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	17	23	kJ/m ²	ISO 179/1eA

Charpy Unnotched Impact Strength (23°C)	85	94	kJ/m ²	ISO 179/1eU
Notched Izod Impact				
23°C	200	--	J/m	ASTM D256
23°C	20	--	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	80	--	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	260	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	253	--	°C	ASTM D648, ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
Flammability	Dry	Conditioned		Test Method
Flame Rating				UL 94
0.800 mm	HB	--		
1.60 mm	HB	--		
3.20 mm	HB	--		
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.12		%	
Rear Temperature	265 to 275		°C	
Middle Temperature	270 to 280		°C	
Front Temperature	280 to 290		°C	
Mold Temperature	80.0 to 110		°C	

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