

TECHNYL® B 218L V20 BLACK 44 N

Polyamide 66/6 Copolymer
Solvay Engineering Plastics

Message:
Copolyamide 66/6, reinforced with 20% of glass fibre, for injection moulding, heat stabilized with improved UV ageing resistance

General Information				
Filler / Reinforcement		Glass Fiber,20% Filler by Weight		
Additive		Heat Stabilizer		
Features		Good Surface Finish		
		Good UV Resistance		
		Heat Stabilized		
Uses		Automotive Applications		
		Handles		
		Housings		
Appearance		Black		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA66/6-GF20<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.29	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	0.80	--	%	
Flow	0.60	--	%	
Water Absorption (23°C, 24 hr)	1.2	--	%	ISO 62
Molding Shrinkage Isotropy	0.750	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	7000	4500	MPa	ISO 527-2/1A
Tensile Stress (Break)	140	85.0	MPa	ISO 527-2/1A
Tensile Strain (Break)	3.0	9.0	%	ISO 527-2/1A
Flexural Modulus	5800	3500	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	7.0	9.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	45	83	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	8.0	13	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
CLTE - Flow (23 to 85°C)	3.5E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	3.0E+14	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Electric Strength	32	28	kV/mm	IEC 60243-1
Relative Permittivity	3.70	4.00		IEC 60250
Dissipation Factor	0.010	0.11		IEC 60250
Comparative Tracking Index (Solution A)	450	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm	HB	--		
1.60 mm	HB	--		
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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