

TECHNYL® A 216 V20 NATURAL

Polyamide 66
Solvay Engineering Plastics

Message:
Polyamide 66, reinforced with 20% of glass fibre, for injection moulding.

General Information				
UL YellowCard		E44716-235560		
Filler / Reinforcement		Glass Fiber,20% Filler by Weight		
Uses		Automotive Applications		
		Power/Other Tools		
Appearance		Black		
		Colors Available		
		Natural Color		
Processing Method		Injection Molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)		>PA66-GF20<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.29	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	0.95	--	%	
Flow	0.70	--	%	
Water Absorption (23°C, 24 hr)	1.0	--	%	ISO 62
Molding Shrinkage Isotropy	0.740	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	7400	530	MPa	ISO 527-2/1A
Tensile Stress (Break)	145	100	MPa	ISO 527-2/1A
Tensile Strain (Break)	4.0	5.0	%	ISO 527-2/1A
Flexural Modulus	6400	4200	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	8.0	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	48	79	kJ/m ²	ISO 179/1eU

Notched Izod Impact Strength	7.0	13	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	250	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
CLTE - Flow (23 to 85°C)	3.0E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	6.0E+14	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	2.0E+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				IEC 60112
Solution A	600	600	V	
Solution B	525	525	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Glow Wire Flammability Index (1.60 mm)	650	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.60 mm)	650	--	°C	IEC 60695-2-13
Oxygen Index	23	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	260 to 270		°C	
Middle Temperature	270 to 280		°C	
Front Temperature	280 to 290		°C	
Mold Temperature	60.0 to 80.0		°C	

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