

TECHNYL® A 216 NATURAL FA

Polyamide 66
Solvay Engineering Plastics

Message:
Unreinforced polyamide 66, medium viscosity, for injection moulding.

General Information				
Features		Food Contact Acceptable		
		Good Abrasion Resistance		
		Good Chemical Resistance		
		Good Impact Resistance		
		Medium Viscosity		
Appearance		Black		
		Colors Available		
		Natural Color		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA66<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	1.9	--	%	
Flow	1.9	--	%	
Water Absorption (23°C, 24 hr)	1.3	--	%	ISO 62
Molding Shrinkage Isotropy	1.00	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3000	1500	MPa	ISO 527-2/1A
Tensile Stress				ISO 527-2/1A
Yield	81.0	60.0	MPa	
Break	80.0	65.0	MPa	
Tensile Strain				ISO 527-2/1A
Yield	4.2	30	%	
Break	30	300	%	
Flexural Modulus	2900	1300	MPa	ISO 178
Flexural Stress	120	50.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	4.5	14	kJ/m ²	ISO 179/1eA

Charpy Unnotched Impact Strength	No Break	No Break		ISO 179/1eU
Notched Izod Impact Strength	4.0	12	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	75.0	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 85°C	2.5E-5	--	cm/cm/°C	
Transverse : 23 to 85°C	7.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+15	1.0E+13	ohms	IEC 60093
Volume Resistivity	4.0E+15	1.0E+14	ohms·cm	IEC 60093
Electric Strength	30	26	kV/mm	IEC 60243-1
Relative Permittivity	2.90	3.20		IEC 60250
Dissipation Factor	0.030	0.080		IEC 60250
Comparative Tracking Index				IEC 60112
Solution A	600	575	V	
Solution B	525	--	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm	V-2	--		
1.60 mm	V-2	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.800 mm	650	--	°C	
1.60 mm	650	--	°C	
Glow Wire Ignition Temperature (1.60 mm)	650	--	°C	IEC 60695-2-13
Oxygen Index	27	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	270 to 275		°C	
Middle Temperature	280 to 285		°C	
Front Temperature	285 to 290		°C	
Mold Temperature	60.0 to 80.0		°C	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

