

TECHNYL® A 221 NATURAL

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYL ® A 221 Natural is an unreinforced polyamide 66, medium viscosity, for injection moulding, with a special crystallizing agent, for fast cycles. It is available in natural color.

General Information				
UL YellowCard		E44716-235575		
Additive		Nucleating Agent		
Features		Fast Molding Cycle		
		Good Dimensional Stability		
		Good Stiffness		
		Medium Viscosity		
		Nucleated		
Uses		Connectors		
Agency Ratings		UU 453/2010/EC		
RoHS Compliance		RoHS Compliant		
Appearance		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<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	1.2	--	%	
Flow	1.2	--	%	
Water Absorption (Saturation, 23°C)	1.1	--	%	ISO 62
Molding Shrinkage Isotropy	1.00	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3200	2000	MPa	ISO 527-2/1A
Tensile Strength				
Yield	98.0	--	MPa	ASTM D638
Yield	95.0	65.0	MPa	ISO 527-2/1A
Tensile Elongation				

Break	15	--	%	ASTM D638
Break	35	110	%	ISO 527-2/1A
Flexural Modulus				
--	3200	--	MPa	ASTM D790
--	3150	1400	MPa	ISO 178
Flexural Strength				
--	125	--	MPa	ASTM D790
--	125	55.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	12	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break	--		ISO 179/1eU
Notched Izod Impact (23°C)	80	--	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	200	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	80.0	--	°C	ASTM D648
1.8 MPa, Unannealed	90.0	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+15	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+14	ohms·cm	IEC 60093
Electric Strength	27	26	kV/mm	IEC 60243-1
Relative Permittivity (3 Hz)	2.90	--		IEC 60250
Dissipation Factor	0.030	0.080		IEC 60250
Comparative Tracking Index				IEC 60112
Solution A	600	600	V	
Solution B	500	--	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 (1.60 mm)	700	--	°C	IEC 60695-2-12
Oxygen Index	26	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	265 to 275		°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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