TECHNYL® A 225F NATURAL

Polyamide 66

Solvay Engineering Plastics

Message:

TECHNYL ® A 225F Natural is an unreinforced polyamide 66, medium viscosity, for injection moulding, with a special crystallizing agent, for very fast cycles. It is available in natural color.

General Information	
UL YellowCard	E44716-235576
Additive	Nucleating Agent
Features	Fast Molding Cycle Good Dimensional Stability Good Moldability Medium Viscosity Nucleated
Uses	Connectors Electrical/Electronic Applications
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
Molding Shrinkage				Internal Method
Across Flow	1.8	--	%	
Flow	1.5	--	%	
Water Absorption				ISO 62
23°C, 24 hr	1.1	--	%	
Saturation, 23°C	1.1	--	%	
Molding Shrinkage Isotropy	0.830	--		Internal Method

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3200	2000	MPa	ISO 527-2/1A
Tensile Stress				ISO 527-2/1A
Yield	85.0	55.0	MPa	

Break	70.0	50.0	MPa	
Tensile Strain				ISO 527-2/1A
Yield	5.0	25	%	
Break	20	100	%	
Flexural Modulus	3150	1400	MPa	ISO 178
Flexural Stress	125	55.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	4.5	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break	--		ISO 179/1eU
Notched Izod Impact Strength (23°C)	5.0	12	kJ/m^2	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	80.0	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
CLTE - Flow (23 to 85°C)	6.5E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	4.0E+12	ohms	IEC 60093
Volume Resistivity	4.0E+15	1.0E+14	ohms·cm	IEC 60093
Electric Strength	27	26	kV/mm	IEC 60243-1
Relative Permittivity	2.90	3.20		IEC 60250
Dissipation Factor	0.020	0.080		IEC 60250
Comparative Tracking Index (Solution A)	600	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.380 mm	V-2	--		
0.800 mm	V-2	--		
1.60 mm	V-2	--		
Glow Wire Flammability Index (1.60 mm)	960	--	°C	IEC 60695-2-12
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	250 to 280		°C	
Middle Temperature	260 to 290		°C	
Front Temperature	270 to 300		°C	
Mold Temperature	60.0 to 80.0		°C	

Recommended distributors for this material

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