

TECHNYL® A 246M NATURAL

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYL® A 246M Natural is an unfilled polyamide 6.6, impact modified, for injection molding. The product is available in natural color.

General Information				
UL YellowCard		E44716-235578		
Additive		Impact Modifier		
Features		Impact Modified		
		Low Temperature Impact Resistance		
		Ultra High Impact Resistance		
Uses		Automotive Applications		
		Sporting Goods		
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-I<		
Physical	Dry	Conditioned	Unit	Test Method
Molding Shrinkage				Internal Method
Across Flow	1.9	--	%	
Flow	1.9	--	%	
Water Absorption (23°C, 24 hr)				ISO 62
	1.1	--	%	
Molding Shrinkage Isotropy				Internal Method
	1.00	--		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1900	600	MPa	ISO 527-2/1A
Tensile Strength				
Yield	50.0	--	MPa	ASTM D638
Yield	47.0	42.0	MPa	ISO 527-2/1A
Break	44.0	35.0	MPa	ISO 527-2/1A
Tensile Strain				
Yield	20	210	%	ISO 527-2/1A

Break	80	--	%	ASTM D638
Flexural Modulus	1800	--	MPa	ASTM D790
Flexural Strength				
--	70.0	--	MPa	ASTM D790
--	70.0	27.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	97	100	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	16	--	kJ/m ²	
23°C	No Break	--		
Notched Izod Impact				
23°C	1.0	120	J/m	ASTM D256
-30°C	22	--	kJ/m ²	ISO 180/1A
23°C	60	80	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	200	--	°C	ASTM D648
1.8 MPa, Unannealed	63.0	--	°C	ASTM D648
1.8 MPa, Unannealed	65.0	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
CLTE - Flow (23 to 85°C)	7.0E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms · cm	IEC 60093
Electric Strength	30	38	kV/mm	IEC 60243-1
Relative Permittivity	3.20	4.00		IEC 60250
Dissipation Factor	0.020	0.060		IEC 60250
Comparative Tracking Index				IEC 60112
Solution A	575	600	V	
Solution B	450	--	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Oxygen Index	25	--	%	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 280		°C	
Front Temperature	270 to 290		°C	

Mold Temperature	60.0 to 80.0	°C
------------------	--------------	----

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

