

TECHNYL® A 216 NATURAL

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYL® A 216 Natural is an unreinforced polyamide 66, standard viscosity, for injection moulding.It is available in natural color.

General Information				
UL YellowCard		E44716-235555		
Features		Good Abrasion Resistance		
		Good Chemical Resistance		
		Good Impact Resistance		
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
Specific Gravity	1.14	--	g/cm ³	ASTM D792, 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	1400	MPa	ISO 527-2/1A
Tensile Strength				
Yield	85.0	--	MPa	ASTM D638
Yield	85.0	60.0	MPa	ISO 527-2/1A
Break	55.0	40.0	MPa	ISO 527-2/1A
Tensile Strain				
Yield	4.5	10	%	ISO 527-2/1A
Break	30	--	%	ASTM D638
Break	50	200	%	ISO 527-2/1A
Flexural Modulus				

--	3000	--	MPa	ASTM D790
--	3000	1300	MPa	ISO 178
Flexural Strength				
--	125	--	MPa	ASTM D790
--	120	70.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break	No Break		ISO 179/1eU
Notched Izod Impact				
23°C	50	--	J/m	ASTM D256
23°C	5.0	9.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength	No Break	No Break		ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	220	--	°C	ASTM D648
0.45 MPa, Unannealed	200	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	75.0	--	°C	ASTM D648
1.8 MPa, Unannealed	85.0	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
CLTE - Transverse (23 to 85°C)	7.0E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+15	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+14	ohms·cm	IEC 60093
Electric Strength	25	22	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	600	V	
Solution B	525	--	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.60 mm	V-2	--		
3.20 mm	V-2	--		
Glow Wire Flammability Index (0.800 mm)	650	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.60 mm)	650	--	°C	IEC 60695-2-13
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

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

