

TECHNYL® A 205F NATURAL

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYL® A 205F Natural is an unreinforced polyamide 66 for injection moulding. It is available in natural color.

General Information				
UL YellowCard		E44716-235549		
Features		Fast Molding Cycle		
		High Flow		
Uses		Connectors		
		Fasteners		
		Thin-walled Parts		
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/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	1.9	--	%	
Flow	1.9	--	%	
Water Absorption (23°C, 24 hr)				ISO 62
Water Absorption (23°C, 24 hr)	1.2	--	%	
Molding Shrinkage Isotropy				Internal Method
Molding Shrinkage Isotropy	1.00	--		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3200	1400	MPa	ISO 527-2/1A
Tensile Strength				
Yield	85.0	--	MPa	ASTM D638
Yield	85.0	50.0	MPa	ISO 527-2/1A
Break	60.0	40.0	MPa	ISO 527-2/1A
Tensile Strain				
Yield	4.0	10	%	ISO 527-2/1A

Break	25	--	%	ASTM D638
Break	50	250	%	ISO 527-2/1A
Flexural Modulus				
--	3350	--	MPa	ASTM D790
--	3000	1300	MPa	ISO 178
Flexural Strength				
--	125	--	MPa	ASTM D790
--	120	50.0	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	80	--	J/m	ASTM D256
23°C	5.0	8.0	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	7.0E-5	--	cm/cm/°C	
Transverse : 23 to 85°C	7.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	5.0E+14	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Electric Strength	27	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	600	V	
Solution B	550	--	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.400 mm	V-2	--		
0.800 mm	V-2	--		
1.60 mm	V-2	--		
Glow Wire Flammability Index (1.60 mm)	850	--	°C	IEC 60695-2-12
Oxygen Index	29	--	%	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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