

TECHNYL® B 216 NATURAL D

Polyamide 66/6 Copolymer
Solvay Engineering Plastics

Message:

Unreinforced copolyamide 66/6, medium viscosity, for injection moulding.

General Information				
UL YellowCard		E44716-235606		
Features		Good Impact Resistance		
		Good Stiffness		
		Good Surface Finish		
		Medium Viscosity		
Uses		Automotive Applications		
		Bottles		
		Electrical/Electronic Applications		
Appearance		Colors Available		
		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)		>PA66/6<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	1.4	--	%	
Flow	1.4	--	%	
Water Absorption (23°C, 24 hr)	1.6	--	%	ISO 62
Molding Shrinkage Isotropy	1.00	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3000	1100	MPa	ISO 527-2/1A
Tensile Stress				ISO 527-2/1A
Yield	85.0	50.0	MPa	
Break	75.0	60.0	MPa	
Tensile Strain				ISO 527-2/1A

Yield	3.6	25	%	
Break	30	100	%	
Flexural Modulus	3000	1200	MPa	ISO 178
Flexural Stress	125	50.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	5.0	16	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179/1eU
Notched Izod Impact Strength	5.0	16	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	67.0	--	°C	ISO 75-2/Af
Melting Temperature	242	--	°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	26	24	kV/mm	IEC 60243-1
Relative Permittivity	3.00	3.20		IEC 60250
Dissipation Factor	0.030	0.10		IEC 60250
Comparative Tracking Index				IEC 60112
Solution A	600	600	V	
Solution B	575	--	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.60 mm	HB	--		
3.20 mm	V-2	--		
Oxygen Index	24	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	250 to 260		°C	
Middle Temperature	260 to 270		°C	
Front Temperature	270 to 280		°C	
Mold Temperature	60.0 to 80.0		°C	

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