

TECHNYL® C 216 NATURAL

Polyamide 6
Solvay Engineering Plastics

Message:
Unreinforced polyamide PA6, standard nucleation for fast cycling, for injection moulding.

General Information				
UL YellowCard		E44716-235519		
Features		Fast Molding Cycle		
		Good Mold Release		
		High Flow		
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)		>PA6<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	1.3	--	%	
Flow	1.3	--	%	
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	2950	1100	MPa	ISO 527-2/1A
Tensile Stress (Yield)	85.0	45.0	MPa	ISO 527-2/1A
Tensile Strain (Break)	100	270	%	ISO 527-2/1A
Flexural Modulus	2900	1000	MPa	ISO 178
Flexural Stress	115	40.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	5.0	84	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179/1eU

Notched Izod Impact Strength	4.5	75	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	222	--	°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+13	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+11	ohms·cm	IEC 60093
Electric Strength	--	18	kV/mm	IEC 60243-1
Relative Permittivity	3.40	3.90		IEC 60250
Dissipation Factor	0.020	0.10		IEC 60250
Comparative Tracking Index				IEC 60112
Solution A	600	--	V	
Solution B	575	--	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Oxygen Index	26	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	220 to 230		°C	
Middle Temperature	225 to 235		°C	
Front Temperature	230 to 240		°C	
Mold Temperature	20.0 to 50.0		°C	

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