

TECHNYL® C 246M NATURAL

Polyamide 6
Solvay Engineering Plastics

Message:

Unreinforced polyamide 6, with high impact resistance, for injection moulding. Grade formerly known as PSB196.

General Information				
Features		High Impact Resistance		
Uses		Sporting Goods		
Appearance		Black		
		Colors Available		
		Natural Color		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA6<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.06	--	g/cm ³	ISO 1183/A
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2000	1100	MPa	ISO 527-2/1A
Tensile Stress (Yield)	45.0	40.0	MPa	ISO 527-2/1A
Tensile Strain (Break)	50	50	%	ISO 527-2/1A
Flexural Modulus	1900	950	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	55	--	kJ/m ²	ISO 179/1eA
Notched Izod Impact Strength	55	--	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	60.0	--	°C	ISO 75-2/Af
Melting Temperature	222	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	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	3.50	4.00		IEC 60250
Dissipation Factor	0.020	0.12		IEC 60250
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Injection	Dry	Unit		

Drying Temperature	80.0	°C
Suggested Max Moisture	0.20	%
Rear Temperature	220 to 225	°C
Middle Temperature	225 to 230	°C
Front Temperature	230 to 235	°C
Mold Temperature	50.0	°C

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