TECHNYL® C 402 M NATURAL

Polyamide 6

Solvay Engineering Plastics

Message:

Unreinforced polyamide PA6, high viscosity, containing monomer, for extrusion.

General Information	
Features	Good Flexibility High Impact Resistance High Viscosity
Appearance	Natural Color
Processing Method	Extrusion
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1)
Part Marking Code (ISO 11469)	>PA6<

Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm³	ISO 1183/A
Water Absorption (23°C, 24 hr)	1.9	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	1200	550	MPa	ISO 527-2/1A
Tensile Stress (Yield)	55.0	35.0	MPa	ISO 527-2/1A
Flexural Modulus	1000	530	MPa	ISO 178
Flexural Stress	50.0	30.0	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength	18 kJ/m²	No Break		ISO 179/1eA
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179/1eU
Notched Izod Impact Strength	15 kJ/m²	No Break		ISO 180/1A
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	65.0	--	°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	3.60	4.10		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	225 to 230		°C	
Middle Temperature	230 to 240		°C	
Front Temperature	235 to 245		°C	
Mold Temperature	40.0		°C	

Recommended distributors for this material

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