

TECHNYL® C 442 BLACK V

Polyamide 6
Solvay Engineering Plastics

Message:

Unreinforced polyamide PA6, high viscosity, with high flexibility and very high impact resistance even at low temperature, for extrusion.

General Information				
Features		Good Flexibility High Viscosity Low Temperature Impact Resistance Ultra High Impact Resistance		
Uses		Piping		
Appearance		Black		
Processing Method		Extrusion Pipe Extrusion		
Part Marking Code (ISO 11469)		>PA6<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.07	--	g/cm ³	ISO 1183/A
Water Absorption (23°C, 24 hr)	1.2	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	900	400	MPa	ISO 527-2/1A
Tensile Stress (Yield)	35.0	30.0	MPa	ISO 527-2/1A
Tensile Strain (Break)	220	270	%	ISO 527-2/1A
Flexural Modulus	850	380	MPa	ISO 178
Flexural Stress	40.0	20.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	No Break	No Break		ISO 179/1eA
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179/1eU
Notched Izod Impact Strength	85 kJ/m ²	No Break		ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	50.0	--	°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	3.70	4.00		IEC 60250
Dissipation Factor	0.020	0.12		IEC 60250
Extrusion	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Cylinder Zone 1 Temp.	200 to 210		°C	
Cylinder Zone 3 Temp.	210 to 220		°C	
Cylinder Zone 5 Temp.	210 to 220		°C	
Die Temperature	220 to 230		°C	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

