

TECHNYL® C 502XT NATURAL

Polyamide 6
Solvay Engineering Plastics

Message:
TECHNYL® C 502XT is an unreinforced polyamide 6, very high viscosity, for extrusion.

General Information				
Features	Viscosity, High			
Uses	Industrial application			
	Piping system			
	Consumer goods application field			
Agency Ratings	EC 1907/2006 (REACH)			
RoHS Compliance	RoHS compliance			
Appearance	Natural color			
Forms	Particle			
Processing Method	Extrusion			
Resin ID (ISO 1043)	PA6			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm ³	ISO 1183/A
Water Absorption (23°C, 24 hr)	1.4	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	2800	900	MPa	ISO 527-2/1A
Tensile Stress (Yield, 23°C)	80.0	35.0	MPa	ISO 527-2/1A
Tensile Strain				ISO 527-2
Yield, 23°C	4.2	2.5	%	ISO 527-2
Fracture, 23°C	160	--	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	No Break	--		ISO 179/1eU
Notched Izod Impact (23°C)	7.0	--	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature	222	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms · cm	IEC 60093
Dielectric Strength (2.00 mm)	22	18	kV/mm	IEC 60243-1
Relative Permittivity	3.40	3.90		IEC 60250

Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Extrusion	Dry	Unit		
Suggested Max Moisture	0.080		%	
Cylinder Zone 1 Temp.	230 - 250		°C	
Cylinder Zone 2 Temp.	235 - 255		°C	
Cylinder Zone 3 Temp.	240 - 260		°C	
Die Temperature	230 - 250		°C	
Extrusion instructions				

The material is supplied in airtight bags, ready for use. In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment.

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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

