TECHNICAL DATA SHEET

Technyl® C 536XT

PA6-I Solvay Engineering Plastics

Product Texts

Unreinforced polyamide 6, with high viscosity and high toughness, for extrusion blow moulding.

TECHNYL C 536XT is suitable for blow moulding applications.

TECHNYL C 536XT is characterised by good processing behaviour, impact resistance even at low temperature and high barrier properties especially to fluids such as fuels and oils.

TECHNYL C 536XT is recommended for use in applications such as tanks, bottles, tubes or pipes.

This product is available in natural and black.

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	2200 / 910	MPa	ISO 527-1/-2
Yield stress	54 / -	MPa	ISO 527-1/-2
Yield strain	4 / -	%	ISO 527-1/-2
Charpy impact strength (+23°C)	N / N	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	76 / N	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	16 / -	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	56 / *	°C	ISO 75-1/-2

Other properties	dry / cond	Unit	Test Standard
ISO Data			
Water absorption	1.27 / *	%	Sim. to ISO 62
Density	1090 / -	kg/m³	ISO 1183

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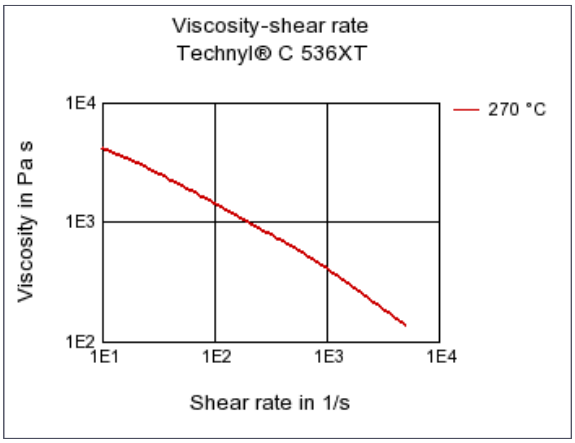
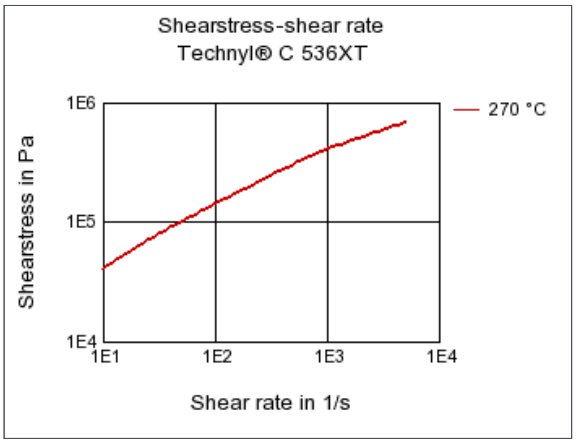
Diagrams

Viscosity-shear rate



Shearstress-shear rate



Characteristics

Processing

Blow Molding

Special Characteristics

High impact or impact modified

Other text information

Injection Molding

The material is supplied in airtight bags, ready for use. Although the material is delivered dry, it is recommended to dry the material to a final moisture content less than 0.08% with a dehumidified air drying equipment at approx. 80°C.

Recommended processing conditions :

Feed zone : 240 – 250°C
Compression zone : 230 – 250°C
Front zone : 230 – 250°C
Die temperature : 230 – 260°C
Tool temperature : 60 – 80°C

The material is delivered in airtight packaging, ready for use.