TECHNYL® C 548B BLACK

Polyamide 6

Solvay Engineering Plastics

Message:

TECHNYL® C 548B Black is an unreinforced polyamide 6, high viscosity, for extrusion blow-moulding. This product is available in black color.

General Information	
Features	Ultra high toughness Impact resistance, high Good melt strength Low temperature impact resistance Fuel resistance Oil resistance Viscosity, High
Uses	Blow molding applications Application in Automobile Field
Agency Ratings	UU 453/2010/EC
RoHS Compliance	RoHS compliance
Appearance	Black
Processing Method	Extrusion blow molding
Part Marking Code (ISO 11469)	>PA6

Physical	Dry	Conditioned	Unit	Test Method
Density	1.05	--	g/cm³	ISO 1183/A
Molding Shrinkage				Internal method
Vertical flow direction	1.3	--	%	Internal method
Flow direction	1.2	--	%	Internal method
Water Absorption (23°C, 24 hr)	1.2	--	%	ISO 62
Molding Shrinkage Isotropy	0.960	--		Internal method

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1900	500	MPa	ISO 527-2/1A
Tensile Stress (Yield)	55.0	45.0	MPa	ISO 527-2/1A
Tensile Strain (Break)	150	--	%	ISO 527-2/1A
Flexural Modulus	1750	850	MPa	ISO 178
Flexural Stress	70.0	45.0	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA

-40°C	20	--	kJ/m²	ISO 179/1eA
23°C	92 kJ/m²	No Break		ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break	No Break		ISO 179/1eU
Notched Izod Impact (23°C)	90 kJ/m²	No Break		ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	55.0	--	°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+14	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+11	ohms·cm	IEC 60093
Dielectric Strength	--	17	kV/mm	IEC 60243-1
Relative Permittivity	3.70	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
Glow Wire Flammability Index (1.60 mm)	650	--	°C	IEC 60695-2-12
Extrusion	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	8.0		hr	
Suggested Max Moisture	0.080		%	
Cylinder Zone 1 Temp.	200 - 220		°C	
Cylinder Zone 3 Temp.	220 - 240		°C	
Adapter Temperature	220 - 240		°C	
Die Temperature	215 - 235		°C	

Extrusion instructions

Head Temperature: 220 to 240°CBlow Molding Mold Temperature: 40 to 60°C

Recommended distributors for this material

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