

TECHNYL® A 230 V13 NATURAL

Polyamide 66
Solvay Engineering Plastics

Message:
Modified polyamide 66, reinforced with 13% of glass fibre, with improved impact resistance, for injection moulding.

General Information				
Filler / Reinforcement		Glass Fiber,13% Filler by Weight		
Features		Good Impact Resistance		
Uses		Automotive Applications		
		Fasteners		
Appearance		Black		
		Colors Available		
		Grey		
		Natural Color		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA66-GF13<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.19	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	1.0	--	%	
Flow	0.85	--	%	
Water Absorption (23°C, 24 hr)	0.75	--	%	ISO 62
Molding Shrinkage Isotropy	0.850	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5500	3650	MPa	ISO 527-2/1A
Tensile Stress				ISO 527-2/1A
Yield	100	60.0	MPa	
Break	100	600	MPa	
Tensile Strain (Break)	4.0	6.0	%	ISO 527-2/1A
Flexural Modulus	4200	2500	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	6.0	8.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	65	60	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	8.0	10	kJ/m ²	ISO 180/1A

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	225	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
CLTE - Flow (23 to 85°C)	5.0E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Electric Strength	35	28	kV/mm	IEC 60243-1
Relative Permittivity	3.50	4.00		IEC 60250
Dissipation Factor	0.010	0.050		IEC 60250
Comparative Tracking Index				IEC 60112
Solution A	600	600	V	
Solution B	525	--	V	
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	260 to 270		°C	
Middle Temperature	270 to 280		°C	
Front Temperature	280 to 290		°C	
Mold Temperature	80.0 to 100		°C	

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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



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