

TECHNYL® A 60G1 V30 NATURAL

Polyamide 66

Solvay Engineering Plastics

Message:

Flame retardant Polyamide PA66 reinforced with 30% of glass fibre, for injection moulding.

General Information				
UL YellowCard		E44716-467001		
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Uses		Automotive Applications		
		Automotive Under the Hood		
Appearance		Black		
		Colors Available		
		Grey		
		Natural Color		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA66-GF30 FR(40)<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.46	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	0.80	--	%	
Flow	0.30	--	%	
Water Absorption (23°C, 24 hr)	0.73	--	%	ISO 62
Molding Shrinkage Isotropy	0.400	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11700	8410	MPa	ISO 527-2/1A
Tensile Stress (Break)	150	115	MPa	ISO 527-2/1A
Tensile Strain (Break)	2.3	4.2	%	ISO 527-2/1A
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	6.7	9.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	55	78	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	245	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3

Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm	V-0	--		
1.60 mm	V-0	--		
3.20 mm	V-0	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.800 mm	960	--	°C	
1.60 mm	960	--	°C	
3.20 mm	960	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.800 mm	775	--	°C	
1.60 mm	775	--	°C	
Oxygen Index	33	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	260 to 275		°C	
Middle Temperature	275 to 280		°C	
Front Temperature	280 to 285		°C	
Mold Temperature	60.0 to 80.0		°C	

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