

TECHNYL® A 60G1 V25 NATURAL

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYL® A 60G1 V25 Natural is a 25% GF reinforced organophosphorous flame retarded grade based on a patented high flow polyamide 66 resin. This product is heat stabilized and provides optimized injection moulding performance. This product is available in

General Information				
Filler / Reinforcement		Glass Fiber,25% Filler by Weight		
Additive		Flame Retardant		
		Heat Stabilizer		
Features		Flame Retardant		
		Good Electrical Properties		
		Good Processability		
		Heat Stabilized		
		High Flow		
Uses		Automotive Applications		
		Automotive Under the Hood		
Agency Ratings		UU 453/2010/EC		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
		Colors Available		
		Grey		
		Natural Color		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA66-GF25 FR(40)<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.38	--	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (275°C/0.005 kg)	27	--	g/10 min	ISO 1133
Molding Shrinkage				Internal Method
Across Flow	0.90	--	%	
Flow	0.50	--	%	
Water Absorption (23°C, 24 hr)	0.83	--	%	ISO 62
Outdoor Suitability	f1	--		UL 746C

Molding Shrinkage				
Isotropy	0.500	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9500	8000	MPa	ISO 527-2/1A
Tensile Strength				
Break	130	--	MPa	ASTM D638
Break	142	88.0	MPa	ISO 527-2/1A
Tensile Elongation				
Break	2.8	--	%	ASTM D638
Break	2.0	2.7	%	ISO 527-2/1A
Flexural Modulus	8300	--	MPa	ASTM D790
Flexural Strength	195	--	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	8.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				
-30°C	60	--	kJ/m ²	ISO 179/1fU
23°C	65	85	kJ/m ²	ISO 179/1eU
Notched Izod Impact				
23°C	95	--	J/m	ASTM D256
23°C	6.8	9.0	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	260	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	246	--	°C	ASTM D648
1.8 MPa, Unannealed	240	--	°C	ISO 75-2/Af
Melting Temperature				
--	263	--	°C	ISO 11357-3
--	262	--	°C	ASTM D3418
CLTE - Transverse (23 to 85°C)	3.0E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Electric Strength	30	28	kV/mm	IEC 60243-1
Comparative Tracking Index (Solution A)	550	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
1.60 mm	775	--	°C	
3.20 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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