

TECHNYL® A 50H1 NATURAL

Polyamide 66
Solvay Engineering Plastics

Message:
Flame retardant polyamide 66, unreinforced, heat stabilised, for injection moulding.

General Information				
Additive		Flame Retardant Heat Stabilizer		
Features		Good Stiffness Halogen Free Heat Stabilized		
Uses		Connectors Electrical/Electronic Applications		
Appearance		Colors Available Natural Color		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA66 FR(30)<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.16	--	g/cm ³	ISO 1183/A
Molding Shrinkage				ISO 294-4
Across Flow	1.1	--	%	
Flow	0.95	--	%	
Water Absorption (23°C, 24 hr)	0.88	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3800	2200	MPa	ISO 527-2/1A
Tensile Stress				ISO 527-2/1A
Yield	86.0	53.0	MPa	
Break	75.0	46.0	MPa	
Tensile Strain				ISO 527-2/1A
Yield	4.2	22	%	
Break	21	140	%	
Flexural Modulus	3700	1710	MPa	ISO 178
Flexural Stress	137	61.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength	3.2	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	130 kJ/m ²	No Break		ISO 179/1eU
Notched Izod Impact Strength	3.0	10	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	237	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	85.0	--	°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
0.380 mm	V-0	--		
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 (1.60 mm)	725	--	°C	IEC 60695-2-13
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	265 to 275		°C	
Middle Temperature	265 to 275		°C	
Front Temperature	270 to 280		°C	
Mold Temperature	60.0 to 80.0		°C	

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