

TECHNYL® A 31T1 MZ40 GREY 174 N

Polyamide 66
Solvay Engineering Plastics

Message:
Flame retardant polyamide PA66, 40% mineral filled, heat stabilised, for injection moulding.

General Information				
Filler / Reinforcement		Mineral,40% Filler by Weight		
Additive		Flame Retardant		
		Heat Stabilizer		
Features		Flame Retardant		
		Good Dimensional Stability		
		Heat Stabilized		
Uses		Electrical/Electronic Applications		
Appearance		Grey		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA66-MD40 FR(17)<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.67	--	g/cm ³	ISO 1183/A
Water Absorption (23°C, 24 hr)	0.43	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6900	4000	MPa	ISO 527-2/1A
Tensile Stress (Break)	77.0	47.0	MPa	ISO 527-2/1A
Tensile Strain (Break)	1.7	6.9	%	ISO 527-2/1A
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	2.2	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	25	--	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	120	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Electric Strength	30	30	kV/mm	IEC 60243-1
Comparative Tracking Index (Solution A)	400	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method

Flame Rating (1.60 mm)	V-2	--		UL 94
Glow Wire Flammability Index				IEC 60695-2-12
0.800 mm	960	--	°C	
1.60 mm	960	--	°C	
3.20 mm	960	--	°C	
Oxygen Index	47	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	270 to 275		°C	
Middle Temperature	280 to 285		°C	
Front Temperature	285 to 290		°C	
Mold Temperature	60.0 to 80.0		°C	

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