

Chemlon® A82

Polyamide 66

Teknor Apex Company (Chem Polymer)

Message:

A82 is a UL recognised, V-0 rated halogen & phosphorus free flame retarded, unreinforced injection moulding grade of nylon 66.

General Information				
Features		Phosphorus content, low (to none)		
		Halogen-free		
		Flame retardancy		
Forms		Particle		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.19	--	g/cm ³	ISO 1183
Molding Shrinkage ¹	1.0 - 1.5	--	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	2.4	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3000	2800	MPa	ISO 527-2
Tensile Stress (Break)	70.0	55.0	MPa	ISO 527-2
Flexural Modulus	3300	1800	MPa	ISO 178
Flexural Stress ²	85.0	40.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	7.0	35	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	> 220	> 220	°C	ISO 75-2/B
1.8 MPa, not annealed	110	99.0	°C	ISO 75-2/A
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+16	1.0E+14	ohms · cm	IEC 60093
Dielectric Strength (3.00 mm)	17	13	kV/mm	IEC 60243-1
Relative Permittivity	4.00	4.40		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.080		IEC 60250
Comparative Tracking Index	> 600	> 600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.570 mm)	V-0	--		UL 94

Glow Wire Flammability Index				IEC 60695-2-12
1.00 mm	960	--	°C	IEC 60695-2-12
1.50 mm	960	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature				IEC 60695-2-13
1.00 mm	960	--	°C	IEC 60695-2-13
1.50 mm	960	--	°C	IEC 60695-2-13
Oxygen Index	38	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0	°C		
Drying Time	2.0	hr		
Rear Temperature	270 - 290	°C		
Middle Temperature	270 - 290	°C		
Front Temperature	270 - 290	°C		
Processing (Melt) Temp	< 300	°C		
Mold Temperature	60.0 - 80.0	°C		
Injection Rate	Fast			
Screw Speed	50 - 200	rpm		
Injection instructions				
如果材料在空气中暴露的时间不超过3小时,则无需干燥.背压:低注射压力:高				
NOTE				

	Mould shrinkage is significantly influenced by many factors including wall thickness, gating, moulding shape and processing conditions. The range values given are determined from specimen bar mouldings of 1.5mm to 4mm wall thickness. They are provided as a guide for comparison purposes only and no guarantee should be inferred from their inclusion. (Specimens measured in the dry state, 24 hours after moulding).
1.	
2.	At conventional deflection

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