# Chemlon® A40

## Polyamide 66

Teknor Apex Company (Chem Polymer)

### Message:

A40 is an unfilled injection moulding grade of nylon 66 containing heat stabiliser.

General Information				
Additive		heat stabilizer		
Features		Thermal Stability		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14		g/cm³	ISO 1183
Molding Shrinkage <sup>1</sup>	1.2 - 1.8		%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	2.5		%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2900	1500	MPa	ISO 527-2
Tensile Stress	75.0	55.0	MPa	ISO 527-2
Flexural Modulus	2800	1000	MPa	ISO 178
Flexural Stress	95.0	35.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	10 kJ/m²	No Break		ISO 179/1eA
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	220	200	°C	ISO 75-2/B
1.8 MPa, not annealed	90.0	80.0	°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+15	ohms·cm	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.50 mm)	V-2			UL 94
Glow Wire Flammability Index (1.50 mm)	750		°C	IEC 60695-2-12
Oxygen Index	27		%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0		hr	

Middle Temperature	270 - 290	°C
Front Temperature	270 - 290	°C
Processing (Melt) Temp	270 - 290	°C
Mold Temperature	60.0 - 80.0	°C
Injection Rate	Fast	
Back Pressure	Low	
Screw Speed	Moderate	
Injection instructions		

No drying is necessary unless the material has been exposed to air for longer than three hours. The appearance of splash marks on the surface of mouldings indicates excessive moisture is present.

#### NOTE

1.

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).

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