

Chemlon® A25

Teknor Apex Company (Chem Polymer) - Polyamide 66

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General Information				
Product Description				
A25 is a standard, unfilled inject	on moulding grade of nylon 66.			
General				
Material Status	Commercial: Active			
Availability	Europe			
Forms	• Pellets			
Processing Method	Injection Molding			

ASTM & ISO Properties ¹							
Physical	Dry	Conditioned	Unit	Test Method			
Density	1.14		g/cm³	ISO 1183			
Molding Shrinkage ²	1.1 to 1.7		%	Internal Method			
Water Absorption (73°F, 24 hr)	1.2		%	ISO 62			
Mechanical	Dry	Conditioned	Unit	Test Method			
Tensile Modulus	406000	232000	psi	ISO 527-2			
Tensile Stress (Yield)	10900	8700	psi	ISO 527-2			
Flexural Modulus	421000	145000	psi	ISO 178			
Flexural Stress ³	13800	5080	psi	ISO 178			
Impact	Dry	Conditioned	Unit	Test Method			
Charpy Notched Impact Strength	6.2 ft·lb/in²	No Break		ISO 179			
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179			
Thermal	Dry	Conditioned	Unit	Test Method			
Heat Deflection Temperature				ISO 75-2/B			
66 psi, Unannealed	437	401	°F				
Heat Deflection Temperature				ISO 75-2/A			
264 psi, Unannealed	194	176	°F				
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			
Electric Strength (0.118 in)	460	300	V/mil	IEC 60243-1			
Relative Permittivity	3.80	4.30		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 (0.06 in)	V-2			UL 94			
Glow Wire Flammability Index				IEC 60695-2-12			
0.06 in	1380		°F				
Oxygen Index	27		%	ISO 4589-2			

Processing Information				
Injection	Dry Unit			
Drying Temperature	176 to 212 °F			
Drying Time	2.0 hr			
Rear Temperature	518 to 554 °F			
Middle Temperature	518 to 554 °F			
Front Temperature	518 to 554 °F			

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< 572 °F	
140 to 176 °F	
Fast	
50 to 200 rpm	
	140 to 176 °F Fast

No drying is necessary unless the material has been exposed to air for longer than three hours.

Back Pressure: Low Injection Pressure: High

Notes

¹ Typical properties: these are not to be construed as specifications.

² Mould shrinkage is significantly influenced by many factors including wall thickness, gating, component shape and moulding conditions. The range values stated were 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).

³ At conventional deflection