

Chemlon® AF303

Screw Speed

Teknor Apex Company (Chem Polymer) - Polyamide 66

	General I	nformation		
Product Description				
AF303 is a 15% glass fibre reinfor	rced nylon 66 that offers good mechanic	cal performance coupled with	good surface fi	nish and flow.
General				
Material Status	 Commercial: Active 			
Availability	• Europe	 North America 		
Filler / Reinforcement	 Glass Fiber, 15% Filler by 	Weight		
Features	Good Flow	Good Surface Finish	h	
Processing Method	Injection Molding			
	ASTM & ISO	O Properties ¹		
Physical		Nominal Value	Unit	Test Method
Density		1.24	g/cm³	ISO 1183
Molding Shrinkage ²		1.0 to 1.6	%	Internal Method
Mechanical		Nominal Value	Unit	Test Method
Tensile Modulus		754000	psi	ISO 527-2
Tensile Stress (Break)		16000	psi	ISO 527-2
Tensile Strain (Break)		5.0	%	ISO 527-2
Flexural Modulus		682000	psi	ISO 178
Flexural Stress 3		21800	psi	ISO 178
Impact		Nominal Value	Unit	Test Method
Charpy Notched Impact Strength		5.2	ft·lb/in²	ISO 179
Thermal		Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)		> 464	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)		419	°F	ISO 75-2/A
Electrical		Nominal Value	Unit	Test Method
Surface Resistivity		1.0E+14	ohms	IEC 60093
Volume Resistivity		1.0E+15	ohms·cm	IEC 60093
Electric Strength (0.118 in)		430	V/mil	IEC 60243-1
Relative Permittivity (1 MHz)		3.80		IEC 60250
Dissipation Factor (1 MHz)		0.010		IEC 60250
Comparative Tracking Index		> 600	V	IEC 60112
Flammability		Nominal Value	Unit	Test Method
Flame Rating (Teknor Apex test re	esult)	НВ		UL 94
	Processing	Information		
Injection		Nominal Value		
Drying Temperature		176		
Drying Time		2.0		
Rear Temperature		518 to 554		
Middle Temperature		518 to 554		
Front Temperature		518 to 554		
Processing (Melt) Temp		< 572		
Mold Temperature		176 to 194	°F	
Injection Rate		Fast		

50 to 200 rpm

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Injection Notes

Back pressure: Low Injection pressure: High

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

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, moulding shape and processing conditions. The range values given are determined from specimen bar mouldings of 1.5 mm to 4 mm 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 Break