

Chemlon® AF303

Polyamide 66

Teknor Apex Company (Chem Polymer)

Message:

AF303 is a 15% glass fibre reinforced nylon 66 that offers good mechanical performance coupled with good surface finish and flow.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Features	Good liquidity		
	Excellent appearance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Molding Shrinkage ¹	1.0 - 1.6	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5200	MPa	ISO 527-2
Tensile Stress (Break)	110	MPa	ISO 527-2
Tensile Strain (Break)	5.0	%	ISO 527-2
Flexural Modulus	4700	MPa	ISO 178
Flexural Stress ²	150	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	11	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	> 240	°C	ISO 75-2/B
1.8 MPa, not annealed	215	°C	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
Dielectric Strength (3.00 mm)	17	kV/mm	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 result)	HB		UL 94
Injection	Nominal Value	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	80.0 - 90.0	°C
Injection Rate	Fast	
Screw Speed	50 - 200	rpm

Injection instructions

背压:低注射压力:高如果材料在空气中暴露的时间不超过3小时,则无需干燥.

NOTE

	<p>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).</p>
1.	
2.	Break

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