

Chemion® 60AIM

Teknor Apex Company (Chem Polymer) - Polyamide 6

	General	Information		
Product Description				
60AIM is an unfilled, lightly modified is required.	fied nylon 6 injection moulding grade that	at is designed for use where in	mproved tough	ness, coupled with good rigidit
General				
Material Status	Commercial: Active			
Availability	• Europe	North America		
Features	Good Toughness	Medium Rigidity		
Processing Method	Injection Molding			
	ASTM & IS	O Properties ¹		
Physical		Nominal Value	Unit	Test Method
Density		1.12	g/cm³	ISO 1183
Molding Shrinkage ²				Internal Method
0.0591 in		1.2	%	
0.157 in		2.5	%	
Mechanical		Nominal Value	Unit	Test Method
Tensile Modulus		305000	psi	ISO 527-2
Tensile Stress (Yield)		8410	psi	ISO 527-2
Tensile Strain (Yield)		5.0	%	ISO 527-2
Tensile Strain (Break)		30	%	ISO 527-2
Flexural Modulus		348000	psi	ISO 178
Flexural Stress				ISO 178
3.5% Strain ³		7540	psi	
4		9430	psi	
Flexural Strain - Yield		8.0	%	ISO 178
Impact		Nominal Value	Unit	Test Method
Notched Izod Impact Strength		4.3	ft·lb/in²	ISO 180
Thermal		Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)		356	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)		167	°F	ISO 75-2/A
Flammability		Nominal Value	Unit	Test Method
Flame Rating (0.12 in, Teknor Apex test result)		HB		UL 94
Oxygen Index		22	%	ISO 4589-2
	Processing	g Information		
njection		Nominal Value	Unit	
Drying Temperature		176 to 212	°F	
Drying Time		2.0	hr	
Rear Temperature		446 to 500	°F	
Middle Temperature		446 to 500	°F	
Front Temperature		446 to 500	°F	
Processing (Melt) Temp		< 572	°F	
Mold Temperature		140 to 176	°F	
Injection Rate		Fast		
Screw Speed		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, 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

⁴ Yield