Chemlon® 60AIM

Polyamide 6

Teknor Apex Company (Chem Polymer)

Message:

60AIM is an unfilled, lightly modified nylon 6 injection moulding grade that is designed for use where improved toughness, coupled with good rigidity, is required.

General Information			
Features	Good toughness Medium hardness		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.12	g/cm³	ISO 1183
Molding Shrinkage [1]			Internal method
1.50 mm	1.2	%	Internal method
4.00 mm	2.5	%	Internal method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2100	MPa	ISO 527-2
Tensile Stress (Yield)	58.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	5.0	%	ISO 527-2
Fracture	30	%	ISO 527-2
Flexural Modulus	2400	MPa	ISO 178
Flexural Stress			ISO 178
3.5% strain [2]	52.0	MPa	ISO 178
-- [3]	65.0	MPa	ISO 178
Flexural Strain - Yield	8.0	%	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	9.0	kJ/m²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	180	°C	ISO 75-2/B
1.8 MPa, not annealed	75.0	°C	ISO 75-2/A
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (3.00 mm, Teknor Apex test result)	HB		UL 94
Oxygen Index	22	%	ISO 4589-2
Injection	**Nominal Value**	**Unit**	
Drying Temperature	80.0 - 100	°C	
Drying Time	2.0	hr	

Rear Temperature	230 - 260	°C
Middle Temperature	230 - 260	°C
Front Temperature	230 - 260	°C
Processing (Melt) Temp	< 300	°C
Mold Temperature	60.0 - 80.0	°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	
1.	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).
2.	At conventional deflection
3.	Yield

Recommended distributors for this material

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