

# Chemlon® ALF20

Teknor Apex Company (Chem Polymer) - Polyamide 66

Friday, June 30, 2017

## General Information

### Product Description

ALF20 is a self-lubricating grade of nylon 66 containing both PTFE and Silicone. It offers outstanding surface wear characteristics of moulded parts. It is intended for use in applications such as bearings and mechanical parts.

### General

Material Status	• Commercial: Active
Availability	• Europe
Additive	• PTFE + Silicone Lubricant
Features	• Low Friction • Lubricated • Self Lubricating • Wear Resistant
Uses	• Bearings • Machine/Mechanical Parts
Processing Method	• Injection Molding

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm <sup>3</sup>	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	8700	psi	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Flexural Modulus	406000	psi	ISO 178
Wear Factor	12	10 <sup>-10</sup> in <sup>3</sup> ·min/ft·lb·hr	Internal Method
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	1.9	ft·lb/in <sup>2</sup>	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	> 392	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)	203	°F	ISO 75-2/A

## Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	2.0	hr
Rear Temperature	518 to 554	°F
Middle Temperature	518 to 554	°F
Front Temperature	518 to 554	°F
Processing (Melt) Temp	518 to 554	°F
Mold Temperature	68 to 104	°F
Injection Rate	Fast	
Back Pressure	Low	
Screw Speed	Moderate	

### Injection Notes

No drying is necessary unless the material has been exposed to air for longer than three hours. The appearance of splash marks on the surface of mouldings indicates excessive moisture is present.

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.



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## Teknor Apex Company (Chem Polymer) - Polyamide 66

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