+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

TEKNOR APEX

Chemlon® ALF20

Teknor Apex Company (Chem Polymer) - Polyamide 66

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 [1]

Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm³	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^-10 in³·min/ft·lb·hr	Internal Method
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength	1.9	ft·lb/in²	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

[1] Typical properties: these are not to be construed as specifications.