+135-3858-6433 (GuangDong)
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TEKNOR APEX

Chemlon® 66A 9516

Teknor Apex Company (Chem Polymer) - Polyamide 66

General Information

Product Description

66A 9516 is an injection moulding grade of nylon 66 containing molybdenum disulphide to reduce the coefficient of friction and improve wear resistance. It is well suited to applications involving moving parts such as bearings, bushes, gear wheels, etc.

General			
Material Status	• Commercial: Active		
Availability	• Europe		
Additive	• Molybdenum Disulfide Lubricant		
Features	• Low Friction	• Lubricated	• Wear Resistant
Uses	• Bearings	• Bushings	• Gears
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm³	ISO 1183
Molding Shrinkage [2]	1.4 to 1.9	%	Internal Method
Water Absorption (Equilibrium, 73°F, 50% RH)	2.5	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	435000	psi	ISO 527-2
Tensile Stress	10900	psi	ISO 527-2
Flexural Modulus	392000	psi	ISO 178
Flexural Stress	10900	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	4.3	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break		ISO 179/1eU
Notched Izod Impact Strength	2.4	ft·lb/in²	ISO 180/A
Unnotched Izod Impact Strength	17	ft·lb/in²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (66 psi, Unannealed)	374	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)	167	°F	ISO 75-2/A
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Electric Strength (0.118 in)	430	V/mil	IEC 60243-1
Comparative Tracking Index	600	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.06 in, Teknor Apex test result)	HB		UL 94
Oxygen Index	24	%	ISO 4589-2

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

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Injection	Nominal Value	Unit
Mold Temperature	176 to 194	°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.

[2] 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 1.5mm 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).