

Chemlon® 66A 9516

Teknor Apex Company (Chem Polymer) - Polyamide 66

Friday, June 30, 2017

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/cm ³	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/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break		ISO 179/1eU
Notched Izod Impact Strength	2.4	ft-lb/in ²	ISO 180/A
Unnotched Izod Impact Strength	17	ft-lb/in ²	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

上海松翰塑料科技有限公司
TEKNOR APEX 特诺尔爱佩斯 一级分销商
teknorapex.com 联系电话: 021-58958519

Revision Date: 3/20/2014

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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).

Teknor Apex Company Corporate Headquarters

*In U.S. for Vinyls, TPEs, Colorants,
Engineered Thermoplastics (Chem Polymer)*
505 Central Avenue
Pawtucket, Rhode Island 02861 U.S.

Phone: 401-725-8000
Fax: 401-725-8095
Toll Free (U.S. only) 800-556-3864

Teknor Apex U.K. Ltd.

Tat Bank Road
Oldbury, West Midlands B69 4NH England

Phone: (44) 121-665-2100
Fax: (44) 121-544-5530

etpsales@teknorapex.co.uk

info@teknorapex.com

上海松翰塑化科技有限公司
TEKNOR APEX 特诺尔爱佩斯 一级分销商
teknorapex.shshsj.com 联系电话: 021-58958519

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