

Chemlon® HY2SM

Teknor Apex Company (Chem Polymer) - Polyamide 6

Friday, June 30, 2017

	General In	formation		
Product Description				
HY2SM is a general purpose, unfilled, h	igh viscosity injection moulding gra	de of nylon 6.		
General				
Material Status	Commercial: Active			
Availability	• Europe			
Additive	 Lubricant 			
Features	General Purpose	High Viscosity	 Lubricated 	
Uses	General Purpose			
Processing Method	Injection Molding			
	ASTM & ISO	Properties ¹		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13		g/cm³	ISO 1183
Molding Shrinkage ²	1.2 to 2.0		%	Internal Method
Water Absorption				ISO 62
Equilibrium, 73°F, 50% RH	3.0		%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	450000	145000	psi	ISO 527-2
Tensile Stress	10200	5800	psi	ISO 527-2
Tensile Strain (Yield)	6.0	25	%	ISO 527-2
Flexural Modulus	406000	145000	psi	ISO 178
Flexural Stress (3.5% Strain)	12500	4350	psi	ISO 178
mpact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	5.2	No Break	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179/1eU
Notched Izod Impact Strength	1.9		ft·lb/in²	ISO 180/A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature	-			ISO 75-2/B
66 psi, Unannealed	374		°F	
Heat Deflection Temperature				ISO 75-2/A
264 psi, Unannealed	203		°F	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+15	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+17	1.0E+15	ohms·cm	IEC 60093
Electric Strength (0.118 in)	360		V/mil	IEC 60243-1
Comparative Tracking Index	600		V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating			明公司	UL 94
0.06 in, Teknor Apex test result	V-2	- 14	有版。如分销商	\
Oxygen Index	25	Information APEX Unit	027-58458519	SO 4589-2
	Processing I	Information APEX COM HEATER	jia.	
njection		TEKNOR APEX com Bry Unit		
Drying Temperature		teknorab 176 °F		
Drying Time		20 hr		
Rear Temperature		482 to 536 °F		

Revision Date: 3/20/2014

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Dry Unit
482 to 536 °F
482 to 536 °F
482 to 554 °F
140 to 176 °F
Fast
Moderate
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).

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