

Chemlon® EN30

Teknor Apex Company (Chem Polymer) - Polyamide 6

Friday, June 30, 2017

Product Description				
EN30 is a modified nylon 6 that offers in	creased impact strength coupled wi	th good rigidity.		
General				
Material Status	 Commercial: Active 			
Availability	• Europe	North America		
Features	High Impact Resistance	High Rigidity		
Processing Method	Injection Molding			
	ASTM & ISO I	Properties ¹		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.11		g/cm³	ISO 1183
Molding Shrinkage ²	1.5 to 2.5		%	Internal Method
Water Absorption				ISO 62
Equilibrium, 73°F, 50% RH	2.7		%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	363000		psi	ISO 527-2
Tensile Stress (Yield)	7250	5800	psi	ISO 527-2
Tensile Strain (Yield)	5.0	25	%	ISO 527-2
Flexural Modulus	348000	87000	psi	ISO 178
Flexural Stress ³	7980	3630	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	10		ft·lb/in²	ISO 179
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179
Notched Izod Impact Strength	5.7		ft·lb/in²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature	•			ISO 75-2/B
66 psi, Unannealed	347		°F	
Heat Deflection Temperature				ISO 75-2/A
264 psi, Unannealed	149		°F	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+14	ohms·cm	IEC 60093
Electric Strength (0.118 in)	330	200	V/mil	IEC 60243-1
Relative Permittivity	3.80	4.30		IEC 60250
Comparative Tracking Index	> 600	> 600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.06 in)	НВ			UL 94
Oxygen Index	22	/	一個/%百	ISO 4589-2
		nformation APE/76 me TEKNOR APE/76 me TEKNOR APE/76 me 464 to 500 °F	有限公期商	\
	Processing In	nformation N. 12 13	国斯 58958519	
Injection		Dry Unit	iff: 021	
Drying Temperature		上海12 APE176mm		
Drying Time		TEKNOR shish 2.0 hr		
Rear Temperature		teknoral 464 to 500 °F		
Middle Temperature		464 to 500 °F		
Front Temperature		464 to 500 °F		

General Information

Revision Date: 3/20/2014

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Injection	Dry Unit
Processing (Melt) Temp	< 572 °F
Mold Temperature	140 to 176 °F
Injection Rate	Fast
Screw Speed	50 to 200 rpm
India attain Mataia	

Injection Notes

Back pressure: Low Injection pressure: High

No drying is necessary unless the materials has been exposed to air for longer than three hours.

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, component shape and moulding conditions. The range values stated were 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).
- ³ At conventional deflection

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



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