

Chemlon® EN30

Teknor Apex Company (Chem Polymer) - Polyamide 6

General Information				
offers increased impact strength coupled w	ith good rigidity.			
Commercial: Active				
• Europe	North America			
High Impact Resistance	High Rigidity			
Injection Molding				
	Offers increased impact strength coupled w	offers increased impact strength coupled with good rigidity. • Commercial: Active • Europe • North America • High Impact Resistance • High Rigidity		

	ASTM & ISO Pro	perties 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		%	ISO 4589-2

Processing Information		
Injection	Dry Unit	
Drying Temperature	176 °F	
Drying Time	2.0 hr	
Rear Temperature	464 to 500 °F	
Middle Temperature	464 to 500 °F	
Front Temperature	464 to 500 °F	

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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

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