

# Chemlon® EN30

Polyamide 6

Teknor Apex Company (Chem Polymer)

## Message:

EN30 is a modified nylon 6 that offers increased impact strength coupled with good rigidity.

General Information				
Features		Rigidity, high		
		Impact resistance, high		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.11	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>1</sup>	1.5 - 2.5	--	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	2.7	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2500	--	MPa	ISO 527-2
Tensile Stress (Yield)	50.0	40.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	25	%	ISO 527-2
Flexural Modulus	2400	600	MPa	ISO 178
Flexural Stress <sup>2</sup>	55.0	25.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	22	--	kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179
Notched Izod Impact	12	--	kJ/m <sup>2</sup>	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	175	--	°C	ISO 75-2/B
1.8 MPa, not annealed	65.0	--	°C	ISO 75-2/A
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
Dielectric Strength (3.00 mm)	13	8.0	kV/mm	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 (1.57 mm)	HB	--	UL 94
Oxygen Index	22	--	% ISO 4589-2
Injection	Dry	Unit	
Drying Temperature	80.0		°C
Drying Time	2.0		hr
Rear Temperature	240 - 260		°C
Middle Temperature	240 - 260		°C
Front Temperature	240 - 260		°C
Processing (Melt) Temp	< 300		°C
Mold Temperature	60.0 - 80.0		°C
Injection Rate	Fast		
Screw Speed	50 - 200		rpm
Injection instructions			
背压:低注射压力:高如果材料在空气中暴露的时间不超过3小时,则无需干燥.			
NOTE			

	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).
1.	
2.	At conventional deflection

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