

# Chemlon® 280 H

Polyamide 6

Teknor Apex Company (Chem Polymer)

Message:

Chemlon® 280 H is a Polyamide 6 (Nylon 6) material. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Chemlon® 280 H are:

- Good Flexibility
- Good Processability
- Good Toughness
- Heat Stabilizer
- High Strength

General Information			
Additive	Heat Stabilizer		
	Impact Modifier		
Features	Good Flexibility		
	Good Impact Resistance		
	Good Processability		
	Good Toughness		
	Heat Stabilized		
	High Strength		
	Impact Modified		
Appearance	Black		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	1.6	%	ASTM D955
Water Absorption (24 hr)	1.5	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	56.5	MPa	ASTM D638
Tensile Elongation (Break)	150	%	ASTM D638
Flexural Modulus	1550	MPa	ASTM D790
Flexural Strength	58.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	930	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed)	65.0	°C	ASTM D648
Melting Temperature	220	°C	
Injection	Nominal Value	Unit	
Drying Temperature	65.6 to 82.2	°C	
Suggested Max Moisture	0.20	%	
Rear Temperature	243	°C	
Middle Temperature	232	°C	
Front Temperature	227	°C	
Nozzle Temperature	232	°C	
Mold Temperature	21.1 to 93.3	°C	
Injection Pressure	34.5 to 138	MPa	
Screw Speed	60 to 120	rpm	

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#### Recommended distributors for this material

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