

# Chemlon® 225-15 MG

Teknor Apex Company (Chem Polymer) - Polyamide 6

Friday, August 4, 2017

## General Information

### General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight	• Mineral, 25% Filler by Weight	
Automotive Specifications	• FORD ESB-M4D353-A3		
Forms	• Pellets		
Processing Method	• Injection Molding		

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.15 to 0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	128	MPa	ASTM D638
Tensile Elongation (Yield)	2.5	%	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	7580	MPa	ASTM D790
Flexural Strength	190	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	85	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	205	°C	ASTM D648
Melting Temperature	216	°C	DSC
CLTE - Flow	5.5E-5	cm/cm/°C	ASTM D696
RTI Elec			UL 746
0.8 mm	65.0	°C	
1.5 mm	65.0	°C	
3.0 mm	65.0	°C	
RTI Imp			UL 746
0.8 mm	65.0	°C	
1.5 mm	65.0	°C	
3.0 mm	65.0	°C	
RTI Str			UL 746
0.8 mm	65.0	°C	
1.5 mm	65.0	°C	
3.0 mm	65.0	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength (3.00 mm)	12	kV/mm	ASTM D149
Comparative Tracking Index (CTI)	500	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.8 mm)	HB		UL 94
Oxygen Index	24	%	ASTM D2863

Revision Date: 12/11/2008

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchasers assume all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or by others. There is no warranty of merchantability and there are no other warranties for the products described.

# Chemlon® 225-15 MG

## Teknor Apex Company (Chem Polymer) - Polyamide 6

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	79	°C
Suggested Max Moisture	0.20	%
Suggested Max Re grind	25	%
Rear Temperature	218 to 235	°C
Middle Temperature	246 to 257	°C
Front Temperature	246 to 268	°C
Nozzle Temperature	246 to 268	°C
Processing (Melt) Temp	249 to 266	°C

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

#### 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

[www.teknorapex.com](http://www.teknorapex.com)  
[info@teknorapex.com](mailto:info@teknorapex.com)

#### Teknor Apex U.K. Ltd.

Tat Bank Road  
Oldbury, West Midlands B69 4NH England

Phone: (44) 121-665-2100  
Fax: (44) 121-544-5530

[www.teknorapex.com](http://www.teknorapex.com)  
[etpsales@teknorapex.co.uk](mailto:etpsales@teknorapex.co.uk)

#### Teknor Apex (Suzhou) Advanced Polymer Compounds Co. Pte. Ltd.

No. 78 Ping Sheng Road  
Suzhou Industrial Park  
Jiangsu, China 215126

Phone: (86) 512-6287-1550  
Fax: (86) 512-6288-8371

[www.teknorapex.com](http://www.teknorapex.com)  
[infotaap@teknorapex.com](mailto:infotaap@teknorapex.com)

#### Teknor Apex Asia Pacific PTE. LTD.

41 Shipyard Road  
Singapore 628134

Phone: (65) 6265-2544  
Fax: (65) 6265-1821

[www.teknorapex.com](http://www.teknorapex.com)  
[infotaap@teknorapex.com](mailto:infotaap@teknorapex.com)

Revision Date: 12/11/2008

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchasers assume all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or by others. There is no warranty of merchantability and there are no other warranties for the products described.