🚸 TEKNOR APEX

# Chemion<sup>®</sup> 143 GH Teknor Apex Company - Polyamide 66

## **General Information**

### **Product Description**

Chemlon® 143 GH is a 43% glass fiber reinforced, heat stabilized polyamide 66 (PA 66) designed for injection molding. This high tensile strength material has a wide processing window, provides a good surface appearance, and is available globally.

Material Status	Commercial: Active		
Availability	<ul><li> Africa &amp; Middle East</li><li> Asia Pacific</li></ul>	<ul><li>Europe</li><li>Latin America</li></ul>	North America
Additive	Heat Stabilizer		
Features	<ul><li>Good Processability</li><li>Good Surface Finish</li></ul>	<ul><li> Good Thermal Stability</li><li> High Tensile Strength</li></ul>	
RoHS Compliance	Contact Manufacturer		
Forms	• Pellets		
Processing Method	Injection Molding		

	ASTM & ISO Pi	operties 1		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.50		g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.4		%	
Flow	0.20		%	
Water Absorption (24 hr, 23°C)	0.60		%	ISO 62
Water Absorption				ISO 62
Saturation, 23°C	1.7		%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	16500	11000	MPa	ISO 527-1
Tensile Stress	215	138	MPa	ISO 527-2
Tensile Strain (Break)	2.5	4.5	%	ISO 527-2
Flexural Modulus	10300	9620	MPa	ISO 178
Flexural Stress	262	208	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	8.9	12	kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength	69	67	kJ/m <sup>2</sup>	ISO 179
Notched Izod Impact Strength	6.5	12	kJ/m <sup>2</sup>	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/B
0.45 MPa, Unannealed	254		°C	
Deflection Temperature Under Load				ISO 75-2/A
1.8 MPa, Unannealed	249		°C	
Melting Temperature	254		°C	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.8 mm)	HB			UL 94

Revision Date: 7/29/2024

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.

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### Legal Statement

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	acknowledgement of Teknor Apex as to the intended use. Please note that some products may not be available in one or
	more countries.

Processing Information		
Dry Unit		
80 °C		
0.11 %		
265 to 293 °C		
77 to 88 °C		

#### **Injection Notes**

Maximum peak injection pressure should not exceed 80% of the machine's maximum pressure capability. Start with a holding pressure that is half the peak injection pressure. Perform a rheology curve in order to determine appropriate injection rate.

### Notes

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

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