



Chemlon® 243 GH

Teknor Apex Company - Polyamide 6

General Information

Product Description

Chemlon 243 GH is a 43% glass filled polyamide 6.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.2	%	
Flow	0.10	%	
Water Absorption (24 hr, 73°F)	0.70	%	ISO 62
Water Absorption (Saturation, 73°F)	1.9	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2.03E+6	psi	ISO 527-1
Tensile Stress (Break)	31900	psi	ISO 527-2
Tensile Strain (Break, 73°F)	4.0	%	ISO 527-2
Flexural Modulus (73°F)	1.74E+6	psi	ISO 178
Flexural Stress (73°F)	43500	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	9.0	ft·lb/in ²	ISO 179
Charpy Unnotched Impact Strength	22	ft·lb/in ²	ISO 179
Notched Izod Impact Strength (73°F)	7.1	ft·lb/in ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	419	°F	ISO 75-2/B
Deflection Temperature Under Load 264 psi, Unannealed	401	°F	ISO 75-2/A
Melting Temperature	428	°F	ASTM D789
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.03 in, Teknor Apex measurement according to UL	HB		
FMVSS Flammability	PASS		FMVSS 302

Notes

¹ Typical properties: these are not to be construed as specifications.