



Chemlon® 233 GI

Teknor Apex Company - Polyamide 6

General Information

Product Description

Chemlon 233 GI is a 33% glass filled impact modified nylon 6.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 33% Filler by Weight		
Additive	• Impact Modifier		
Features	• Creep Resistant • Good Stiffness	• Good Toughness • Impact Modified	
Appearance	• Black	• Natural Color	
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.35		ASTM D792
Molding Shrinkage			ISO 294-4
Across Flow	1.0	%	
Flow	0.10	%	
Water Absorption (24 hr, 73°F)	0.80	%	ISO 62
Water Absorption (Saturation, 73°F)	2.1	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.45E+6	psi	ISO 527-1
Tensile Stress (Break)	21800	psi	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Flexural Modulus	1.09E+6	psi	ISO 178
Flexural Stress	29000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	7.6	ft·lb/in ²	ISO 179
Charpy Unnotched Impact Strength	35	ft·lb/in ²	ISO 179
Notched Izod Impact Strength	7.6	ft·lb/in ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Annealed)	383	°F	ISO 75-2/B
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed	410	°F	
Melting Temperature	420	°F	
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

Notes

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