

Chemlon® 235G

Teknor Apex Company (Chem Polymer) - Polyamide 6

Friday, June 30, 2017

	General Information
Product Description	
235G is a 35% glass fibre reinforcharacteristics.	rced nylon 6 that offers a balance between mechanical performance, surface finish and mould release
General	
Material Status	Commercial: Active
Availability	• Europe
Filler / Reinforcement	Glass Fiber, 35% Filler by Weight
Processing Method	Injection Molding

	ASTM & ISO Pro	perties 1		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.41		g/cm³	ISO 1183
Molding Shrinkage ²	0.70 to 1.2		%	Internal Method
Water Absorption				ISO 62
Equilibrium, 73°F, 50% RH	1.9		%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.45E+6	1.16E+6	psi	ISO 527-2
Tensile Stress	26100	17400	psi	ISO 527-2
Tensile Strain (Break)	4.0	6.0	%	ISO 527-2
Flexural Modulus	1.33E+6	653000	psi	ISO 178
Flexural Stress	37700	20300	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	8.1	18	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength	26		ft·lb/in²	ISO 179/1eU
Notched Izod Impact Strength	6.7		ft·lb/in²	ISO 180/A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/B
66 psi, Unannealed	> 392		°F	
Heat Deflection Temperature				ISO 75-2/A
264 psi, Unannealed	> 392		°F	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+16	1.0E+14	ohms·cm	IEC 60093
Electric Strength (0.118 in)	280	200	V/mil	IEC 60243-1
Relative Permittivity	3.80	4.20		IEC 60250
Comparative Tracking Index	500		V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.06 in, Teknor Apex test result	НВ		有限公開商	
Oxygen Index	24	rmation APEX HERENOR APEX HEREN	風斯 21-58958519	ISO 4589-2
	Processing Info	rmation。PEX特腊斯思	E.	
Injection		TEKNOR Anshary Unit		
Drying Temperature	\	TEMprapex. 176 °F		
Drying Time		20 hr		
Rear Temperature		482 to 536 °F		

Revision Date: 3/17/2014

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482 to 536 °F 482 to 536 °F
482 to 536 °F
482 to 554 °F
158 to 194 °F
Fast
Low

Injection Notes

No drying is necessary unless the material has been exposed to air for longer than three hours. The appearance of splash marks on the surface of mouldings indicates excessive moisture is present.

Notes

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

² Mould shrinkage is significantly influenced by many factors including wall thickness, gating, moulding shape and processing conditions. The range values given are determined from specimen bar mouldings of 1.5mm to 4mm wall thickness. They are provided as a guide for comparison purposes only and no guarantee should be inferred from their inclusion. (Specimens measured in the dry state, 24 hours after moulding).

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