📀 TEKNOR APEX

Chemion[®] AF413 Teknor Apex Company (Chem Polymer) - Polyamide 66

Friday, June 30, 2017

General Information

Product Description

AF413 is a 15% glass fibre reinforced nylon 66 that offers improved mechanical performance coupled with an improved surface finish. The grade is also heat stabilised and can be used at elevated temperatures.

General		
Material Status	Commercial: Active	
Availability	• Europe	
Filler / Reinforcement	Glass Fiber, 15% Filler by Weight	
Additive	Heat Stabilizer	
Features	Heat Stabilized	
Uses	High Temperature Applications	
Processing Method	Injection Molding	

ASTM & ISO Properties ¹						
Physical	Dry	Conditioned	Unit	Test Method		
Density	1.24		g/cm³	ISO 1183		
Molding Shrinkage ²	0.80 to 1.6		%	Internal Method		
Water Absorption				ISO 62		
Equilibrium, 73°F, 50% RH	2.1		%			
Mechanical	Dry	Conditioned	Unit	Test Method		
Tensile Modulus	754000	363000	psi	ISO 527-2		
Tensile Stress	13800	7980	psi	ISO 527-2		
Tensile Strain (Break)	4.0	6.0	%	ISO 527-2		
Flexural Modulus	682000	305000	psi	ISO 178		
Flexural Stress	21800	11600	psi	ISO 178		
Impact	Dry	Conditioned	Unit	Test Method		
Charpy Notched Impact Strength	5.2	17	ft·lb/in²	ISO 179/1eA		
Thermal	Dry	Conditioned	Unit	Test Method		
Heat Deflection Temperature				ISO 75-2/B		
66 psi, Unannealed	> 464		°F			
Heat Deflection Temperature				ISO 75-2/A		
264 psi, Unannealed	419		°F			
Electrical	Dry	Conditioned	Unit	Test Method		
Surface Resistivity	1.0E+14	1.0E+12	ohms	IEC 60093		
Volume Resistivity	1.0E+17	1.0E+15	ohms∙cm	IEC 60093		
Electric Strength (0.118 in)	460		V/mil	IEC 60243-1		
Comparative Tracking Index	600		V	IEC 60112		
Flammability	Dry	Conditioned	Unit	Test Method		
Flame Rating			同公司	UL 94		
0.06 in, Teknor Apex test result	HB	- 45	有限公前商	\backslash		
Oxygen Index	25	Trimation APEX History Unit teknorabox chambry Unit 176 °F 2.0 hr 527 to 572 °E	有限公司 佩斯-级分销商 	ISO 4589-2		
	Processing Info	mation PEX HTM # SHE	in.			
Injection		EKNOR shsh Dry Unit				
Drying Temperature		teknorape. 176 °F				
Drying Time		2.0 hr				
Rear Temperature		527 to 572 °F				

Revision Date: 3/17/2014

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Injection	Dry Unit
Middle Temperature	527 to 572 °F
Front Temperature	527 to 572 °F
Processing (Melt) Temp	527 to 572 °F
Mold Temperature	176 to 194 °F
Injection Rate	Fast
Back Pressure	Low
Screw Speed	Moderate

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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