Chemlon® 240GH

Polyamide 6

Teknor Apex Company (Chem Polymer)

Message:

240GH is a 40% glass fibre reinforced, heat stabilised grade of nylon 6. It is formulated to offer excellent mechanical performance coupled with good surface finish.

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight			
Additive	heat stabilizer			
Features	Thermal Stability Excellent appearance			
Processing Method	Injection molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.45	--	g/cm³	ISO 1183
Molding Shrinkage [1]	0.70 - 1.0	--	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	1.8	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	11000	9000	MPa	ISO 527-2
Tensile Stress	190	130	MPa	ISO 527-2
Tensile Strain (Break)	3.0	5.0	%	ISO 527-2
Flexural Modulus	10000	5000	MPa	ISO 178
Flexural Stress	260	150	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Notched Izod Impact	15	--	kJ/m²	ISO 180/A
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, not annealed	> 200	--	°C	ISO 75-2/B
1.8 MPa, not annealed	> 200	--	°C	ISO 75-2/A
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	1.0E+15	--	ohms	IEC 60093
Volume Resistivity	1.0E+17	--	ohms·cm	IEC 60093
Dielectric Strength (3.00 mm)	11	--	kV/mm	IEC 60243-1
Comparative Tracking Index	500	--	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flame Rating (1.50 mm, Teknor Apex test result)	HB	--		UL 94

Injection	Dry	Unit
Drying Temperature	80.0	°C
Drying Time	20	hr
Rear Temperature	250 - 290	°C
Middle Temperature	250 - 290	°C
Front Temperature	250 - 290	°C
Processing (Melt) Temp	250 - 290	°C
Mold Temperature	60.0 - 80.0	°C
Injection Rate	Fast	
Back Pressure	Low	
Screw Speed	Moderate	

Injection instructions
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.

NOTE	
1.	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).

Recommended distributors for this material

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