Chemlon® ENF2

Polyamide 6

Teknor Apex Company (Chem Polymer)

Message:

ENF2 is a 30% glass fibre reinforced, impact modified nylon 6 that offers good mechanical performance coupled with good surface finish. The grade also offers improved flow and is heat stabilised so that the good mechanical performance is maintained when exposed to elevated temperatures. The impact modification means that components in impact sensitive applications can be used without conditioning.

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight			
Additive	Impact modifier heat stabilizer			
Features	Impact modification Low Temperature Flexibility Thermal Stability Excellent appearance			
Processing Method	Injection molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.35	--	g/cm³	ISO 1183
Molding Shrinkage [1]	0.80 - 1.4	--	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	1.7	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	8100	--	MPa	ISO 527-2
Tensile Stress	142	93.0	MPa	ISO 527-2
Tensile Strain (Break)	4.5	8.0	%	ISO 527-2
Flexural Modulus	7200	3.70	MPa	ISO 178
Flexural Stress (3.5% Strain)	215	85.0	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength	19	40	kJ/m²	ISO 179/1eA
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	> 190	--	°C	ISO 75-2/A
Flammability	**Dry**	**Conditioned**		**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 - 280	°C
Middle Temperature	250 - 280	°C
Front Temperature	250 - 280	°C
Processing (Melt) Temp	250 - 290	°C
Mold Temperature	60.0 - 80.0	°C
Injection Rate	Fast	
Back Pressure	Moderate	
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

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

WECHAT