Chemlon® 253-15GHIU

Polyamide 6

Teknor Apex Company (Chem Polymer)

Message:

253-15GHIU is a 15% glass fibre reinforced, impact modified nylon 6 that offers good mechanical performance coupled with good surface finish. It is heat & UV stabilised so that the good mechanical performance and surface appearance is maintained when exposed to high service temperature and weathering resistance.
Colour change after 2500kJ/m² exposure (SAE J 1960) <3 Delta E

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Additive	Impact modifier heat stabilizer UV stabilizer		
Features	Impact modification Light stabilization Good weather resistance Thermal Stability Excellent appearance		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.21	g/cm³	ISO 1183
Molding Shrinkage [1]	0.80 - 1.5	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	2.2	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress	95.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	3.0	%	ISO 527-2
Fracture	4.0	%	ISO 527-2
Flexural Modulus	400	MPa	ISO 178
Flexural Stress	125	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	13	kJ/m²	ISO 180/A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	195	°C	ISO 75-2/B
1.8 MPa, not annealed	185	°C	ISO 75-2/A
CLTE - Flow	5.5E-5	cm/cm/°C	Internal method

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Dielectric Strength (3.00 mm)	11	kV/mm	IEC 60243-1
Comparative Tracking Index	500	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.50 mm, Teknor Apex test result)	HB		UL 94
Oxygen Index	22	%	ISO 4589-2
Injection	**Nominal Value**	**Unit**	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Rear Temperature	240 - 270	°C	
Middle Temperature	240 - 270	°C	
Front Temperature	240 - 270	°C	
Processing (Melt) Temp	240 - 270	°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

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