+135-3858-6433 (GuangDong) +188-1699-6168 (ShangHai) +852-6957-5415 (HongKong)



Chemion® 60MGS6IM

Teknor Apex Company - Polyamide 6

General Information				
Product Description				
60MGS6IM is a 30% mineral & g service temperatures.	lass sphere filled, impact modified, ea	sy flowing grade of nylon 6. It offers impro	ved toughness at low ambient	
General				
Material Status	Commercial: Active			
Availability	• Europe	North America		
Filler / Reinforcement	 Glass Bead\Mineral, 30% 	Glass Bead\Mineral, 30% Filler by Weight		
Additive	 Impact Modifier 			
Features	 Good Flow Good Toughness	 Impact Modified Low Temperature Toughness	Medium Rigidity	
Processing Method	 Injection Molding 			

ASTM & ISO Properties ¹				
Physical	Dry	Conditioned	Unit	Test Method
Density	1.31		g/cm³	ISO 1183
Molding Shrinkage ²	0.60 to 1.4		%	Internal Method
Water Absorption				ISO 62
Equilibrium, 73°F, 50% RH	1.9		%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Stress	11000		psi	ISO 527-2
Tensile Strain (Break)	11		%	ISO 527-2
Flexural Modulus	537000	196000	psi	ISO 178
Flexural Stress	18100	9860	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact Strength	2.9		ft·lb/in²	ISO 180/A
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/B
66 psi, Unannealed	401	365	°F	
Deflection Temperature Under Load				ISO 75-2/A
264 psi, Unannealed	151	144	°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	600		V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.06 in, Teknor Apex test result	НВ			
Oxygen Index	22		%	ISO 4589-2

Processing Information		
Injection	Dry Unit	
Drying Temperature	176 °F	
Drying Time	2.0 to 4.0 hr	

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Injection	Dry Unit
Rear Temperature	464 to 536 °F
Middle Temperature	464 to 536 °F
Front Temperature	464 to 536 °F
Processing (Melt) Temp	482 to 527 °F
Mold Temperature	140 to 176 °F
Injection Rate	Fast
Back Pressure	Low
Screw Speed	Moderate

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).