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TEKNOR APEX

Chemlon S 125 GVH

Teknor Apex Asia Pacific PTE. LTD. - Polyamide 66

General Information

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight		
Features	• Halogenated	• Heat Stabilized	
Uses	• Automotive Applications	• Industrial Applications	
Appearance	• Black	• Natural Color	
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.55		ASTM D792
Molding Shrinkage - Flow	1.0E-3 to 3.0E-3	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Ultimate)	19600	psi	ASTM D638
Tensile Elongation (Yield)	2.0	%	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	994000	psi	ASTM D790
Flexural Strength	25400	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F)	1.6	ft·lb/in	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Annealed)	455	°F	ASTM D648
Melting Temperature	495	°F	ASTM D789
CLTE - Flow	3.1E-5	in/in/°F	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Dielectric Strength	410	V/mil	ASTM D149
Comparative Tracking Index (CTI)	350	V	UL 746A
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.031 in)	V-0		UL 94
Glow Wire Flammability Index (0.13 in)	1760	°F	IEC 60695-2-12
Glow Wire Ignition Temperature (0.13 in)	1610	°F	IEC 60695-2-13
Oxygen Index	32	%	ASTM D2863
FMVSS Flammability	PASSED		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Suggested Max Moisture	0.20	%
Rear Temperature	486 to 514	°F
Middle Temperature	505 to 545	°F
Front Temperature	514 to 556	°F
Nozzle Temperature	514 to 545	°F