+135-3858-6433 (GuangDong)
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TEKNOR APEX

Chemlon® 133 G

Teknor Apex Company - Polyamide 66

General Information

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Glass Fiber, 33% Filler by Weight		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.39	g/cm³	ISO 1183
Molding Shrinkage			ISO 2577
Across Flow	0.30	%	
Flow	0.10	%	
Water Absorption (24 hr, 73°F)	0.80	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1.67E+6	psi	ISO 527
Tensile Stress	26800	psi	ISO 527
Tensile Strain (Break)	3.0	%	ISO 527
Flexural Modulus	1.40E+6	psi	ISO 178/A
Flexural Stress	38400	psi	ISO 178/A
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-40°F	3.8	ft·lb/in²	
73°F	5.2	ft·lb/in²	
Notched Izod Impact Strength (73°F)	5.2	ft·lb/in²	ISO 180/A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	496	°F	ISO 75-2/B
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed	473	°F	
Melting Temperature	502	°F	DSC
CLTE - Flow	2.8E-5	in/in/°F	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength (0.118 in)	410	V/mil	ASTM D149
Comparative Tracking Index (CTI)	600	V	UL 746A
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.030 in)	HB		UL 94
Oxygen Index	25	%	ASTM D2863
FMVSS Flammability	PASSES		FMVSS 302

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Processing Information

Injection	Nominal Value	Unit
Drying Temperature	175	°F
Suggested Max Moisture	0.20	%
Suggested Max Regrind	25	%
Rear Temperature	475 to 495	°F
Middle Temperature	505 to 525	°F
Front Temperature	515 to 540	°F
Nozzle Temperature	515 to 540	°F
Processing (Melt) Temp	505 to 540	°F

Notes

[1] Typical properties: these are not to be construed as specifications.