

Chemlon® 113 GH

Teknor Apex Company (Chem Polymer) - Polyamide 66

Thursday, April 5, 2018

General Information

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Glass Fiber, 13% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Creep Resistant • Good Dimensional Stability	• Good Stiffness • Heat Stabilized	• High Strength
Automotive Specifications	• CHRYSLER MS-DB-41 CPN2239 Color: BK001 Black • CHRYSLER MS-DB-41 CPN3794 Color: Non-matched Color • CHRYSLER MS-DB-41 CPN4061 Color: 100% Color Match • FORD ESA-M4D349-A • GM GMP.PA66.020 Color: Black • GM GMP.PA66.020 Color: Natural • GM GMW3038P-PA66-GF15H Color: Black		
Appearance	• Black	• Natural Color	
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.22		ASTM D792
Molding Shrinkage - Flow	4.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	16500	psi	ASTM D638
Tensile Elongation (Yield)	3.0	%	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	675000	psi	ASTM D790
Flexural Strength	24500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.2	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	419	°F	ASTM D648
Melting Temperature	495	°F	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms-cm	ASTM D257
Dielectric Strength (0.118 in)	460	V/mil	ASTM D149
Comparative Tracking Index (CTI)	600	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.03 in)	HB		UL 94
Oxygen Index	25	%	ASTM D2863

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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	465 to 495	°F
Middle Temperature	495 to 520	°F
Front Temperature	505 to 535	°F
Nozzle Temperature	505 to 540	°F
Processing (Melt) Temp	505 to 540	°F

Notes

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

Teknor Apex Company Corporate Headquarters

*In U.S. for Vinyls, TPEs, Colorants,
Engineered Thermoplastics (Chem Polymer)*
505 Central Avenue
Pawtucket, Rhode Island 02861 U.S.

Phone: 401-725-8000
Fax: 401-725-8095
Toll Free (U.S. only) 800-556-3864

www.teknorapex.com
info@teknorapex.com

Teknor Apex U.K. Ltd.

Tat Bank Road
Oldbury, West Midlands B69 4NH England

Phone: (44) 121-665-2100
Fax: (44) 121-544-5530

www.teknorapex.com
etpsales@teknorapex.co.uk

Teknor Apex (Suzhou) Advanced Polymer Compounds Co. Pte. Ltd.

No. 78 Ping Sheng Road
Suzhou Industrial Park
Jiangsu, China 215126

Phone: (86) 512-6287-1550
Fax: (86) 512-6288-8371

www.teknorapex.com
infotaap@teknorapex.com

Teknor Apex Asia Pacific PTE. LTD.

41 Shipyard Road
Singapore 628134

Phone: (65) 6265-2544
Fax: (65) 6265-1821

www.teknorapex.com
infotaap@teknorapex.com

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