

TEKNOR APEX MATERIALS SOLUTIONS:

ELECTRICAL AND ELECTRONICS APPLICATIONS

With global reach and global vision, Teknor Apex is the trusted leader in engineering thermoplastics (ETPs). We are committed partners in helping you find materials solutions that ensure your electrical and electronics components consistently perform to the highest standards. From unreinforced standard products to halogen-free, fire-protected, high performance materials, Teknor Apex offers thousands of custom formulations to solve even the most complex challenges.

Teknor Apex ETPs deliver excellent flammability and ignition resistance while maintaining the properties needed for the most demanding electrical and electronics applications. **All materials are held to stringent requirements concerning:**

- SAFETY
- PRODUCT PERFORMANCE AND PROCESSABILITY
- THIN WALL APPLICATIONS
- ENVIRONMENTAL PROTECTION
- WORLDWIDE MATERIAL AVAILABILITY

TEKNOR APEX HIGH PERFORMANCE ETPS

Teknor Apex ETPs include numerous UL-recognized products that have obtained flame class ratings, RTI and electrical property classifications, a select number of which are represented here. Visit ul.com for a full listing.

OUR PRODUCT PORTFOLIO INCLUDES:

Chemlon® polyamides are based on customized PA 66 or PA 6 that contain glass or mineral reinforcements, impact modifiers, and other additives

Creamid® polyamides and **Creamid® V** cross-linkable thermoplastics span chemical formulations to resolve issues related to mechanical, electrical, and thermal performance, surface aesthetics, and processing

Crealen polypropylene offer reinforced, halogen-free flame retardant grades for enhanced performance versus standard polypropylene compounds

Recyclon® sustainable solutions deliver grades that contain up to 100% recycled resin content that offer a high degree of performance and processing consistency

REPRESENTATIVE APPLICATIONS

Teknor Apex offers custom colorable material solutions used in many electrical and electronics applications to meet requirements concerning UL94 flammability, high voltage, glow wire ignition capability, relative thermal index, corrosion resistance, and the trend toward thinner walls in applications such as (but not limited to):

- Connectors
- Sensors
- Enclosures and housings
- Controllers
- Engine covers
- Battery packs



CREAMID AND CHEMLON GRADES

	RELATIVE THERMAL INDEX (RTI)																	
	FLAMMABILITY RATING					CTI	ELECTRICAL				IMPACT				STRENGTH			
	0.4mm	0.6mm	0.8mm	1.5mm	3.0mm	--	0.4mm	0.8mm	1.5mm	3.0mm	0.4mm	0.8mm	1.5mm	3.0mm	0.4mm	0.8mm	1.5mm	3.0mm
CREAMID-A3H2G5 FRSE	V-0	--	V-0	--	V-0	0	120	120	--	120	100	100	--	100	130	130	--	130
CREAMID-A3H2G6 FRS	--	--	V-1	V-0	V-0	--	--	65	120	120	--	65	100	100	--	65	130	130
CREAMID AFRHF	--	--	V-0	--	V-0	--	--	65	--	65	--	65	--	65	--	65	--	65
CREAMID-AG-10FRPH1	--	--	V-0	V-0	V-0	0	--	125	125	125	--	115	115	125	--	115	115	125
CREAMID-C3H2G4 FRSE	V-0	--	V-0	V-0	V-0	--	115	125	125	125	85	85	90	90	125	125	130	130
CREAMID-C3H2G6 FRS	--	--	V-0	V-0	V-0	--	--	65	65	65	--	65	65	65	--	65	65	65
CREAMID-C3H2FR	V-0	--	V-0	V-0	V-0	--	130	140	140	140	105	110	110	110	105	110	110	110
V-PTS-CREAMID-AG5 FRPH1	--	--	V-0	V-0	V-0	1	--	140	140	140	--	65	65	65	--	65	65	65
V-PTS-CREAMID-AG7.FRPH1.0	--	--	HB	V-0	V-0	0	--	120	120	120	--	65	65	65	--	65	65	65
V-PTS-CREAMID-AG10.FRPH1.0	--	--	V-0	V-0	V-0	--	--	125	125	125	--	115	115	125	--	115	115	125
V-PTS-CREAMID-B3H2G5FR	V-0	--	V-0	--	V-0	0	65	125	--	125	65	125	--	125	65	125	--	125
V-PTS-CREAMID-C3H2G5FRS	--	--	V-0	--	V-0	--	--	65	--	65	--	65	--	65	--	65	--	65
CHEMLON 182	--	V-0	--	--	--	0	--	120	120	120	--	95	105	105	--	120	120	120
CHEMLON 133GH	--	--	HB	--	--	0	--	95	110	110	--	95	110	110	--	130	130	130
CHEMLON 282	--	V-0	--	--	--	0	--	130	130	130	--	105	105	105	--	120	120	120
CHEMLON 225GVNH	--	--	V-0	--	--	0	--	65	--	--	--	65	--	--	--	65	--	--
CHEMLON 233GH	--	--	HB	--	--	1	--	105	105	105	--	105	105	105	--	105	105	105

TURN TO TEKNOR APEX

Electrical and electronics applications are increasingly complex, and OEMs across industries are seeking reliable, innovative solutions. Teknor Apex has the materials, engineering expertise, and commitment to collaboration that make us the trusted — and sought after — partner.

[CONTACT THE TEKNOR APEX TEAM TO DISCUSS YOUR CURRENT AND FUTURE NEEDS.](#)

