

EVERFLON^{ACADEMIC}

Melt-Processable Everflon™
Fluoroplastic Resins

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Melt-Processable Everflon™ Fluoroplastic Resins at a Glance

Melt-processable Everflon™ fluoroplastic resins are the ideal choice for component development in the rapidly advancing technologies of wire and cable, aerospace, consumer electronics, automotive, semicon, oil and gas, chemical processing, and wireless transmission, to name a few. Discover the outstanding functional properties of Everflon+™ fluoroplastic resins: exceptional dielectric properties, high stress-crack resistance, chemical inertness, low flammability, and thermal cycling capabilities.

Resin Type	Grade	Typical Properties					Processing			Features
		Upper Service Temperature °C	Melting Point °C	MFR g/10min	Tensile Strength Mpa	Elongation %	Molding	Extrusion	Injection	
Everflon™ FEP	4601	200	260	1.5	>28	>360	●			Stress crack resistance
Everflon™ FEP	4603	200	260	2~4	<28	>350		●		General purpose resin
Everflon™ FEP	4603S	200	260	2~4	>28	>360	●	●	●	Stress crack resistance
Everflon™ FEP	4608T	200	250	6~8	>24	>330		●		Tubing application design
Everflon™ FEP	4610	200	250	8~12	<22	>330		●		General purpose resin
Everflon™ FEP	4610S	200	260	8~12	>24	>360		●	●	Superior processing than 4610
Everflon™ FEP	4622	200	250	20~24	<20	>300		●	●	General purpose resin
Everflon™ FEP	4622S	200	260	20~24	>22	>330		●		Superior processing and perperties than 4622
Everflon™ FEP	4630	200	250	8~12	<20	>300		●		General purpose resin
Everflon+™ FEP	PF4610	200	260	8~12	>22	>330		●		Physical foam grade with middle MFI
Everflon+™ FEP	PF4622	200	260	20~24	>20	>360		●		Physical foam grade with high MFI
Everflon+™ FEP	PF4630	200	260	27~33	>18	>360		●		Physical foam grade with extra high MFI
Everflon+™ FEP	CF4610	200	260	8~12	>28	>360		●		Chemical foam grade with 15~45% foam
Everflon+™ FEP	CF4622	200	260	20~24	<24	>330		●		Chemical foam grade with 15~45% foam
Everflon ^{ultra} ™ FEP	4603X	240	280	2~4	>28	>360	●	●	●	Modified and higher working temperature
Everflon ^{ultra} ™ FEP	4610X	240	280	8~12	>28	>360	●	●	●	Modified and higher working temperature
Everflon ^{ultra} ™ FEP	4622HT	240	280	20~24	>24	>300		●		Modified and higher working temperature
Everflon ^{ultra} ™ FEP	4630HT	240	280	27~33	>22	>330		●		Modified and higher working temperature
Everflon ^{ultra} ™ FEP	GC4603 iota	200	260	2~4	<28	>360		●		High purity wht ppb metal ion release
Everflon ^{ultra} ™ FEP	GC4603X iota	240	280	2~4	>28	>360	●	●		Higher working temperature than GC4603
Everflon ^{ultra} ™ FEP	GC4610 iota	200	250	8~12	<24	>330		●		High purity wht ppb metal ion release
Everflon ^{ultra} ™ FEP	GC4610X iota	240	280	8~12	>28	>360		●	●	Higher working temperature than GC4610
Everflon ^{ultra} ™ FEP	GC4603 zero	200	260	2~4	<28	>360		●		Ultra high purity wht ppt metal ion release
Everflon ^{ultra} ™ FEP	GC4610 zero	200	260	8~12	>22	>330		●		Ultra high purity wht ppt metal ion release
Everflon ^{ultra} ™ FEP	GC4622 zero	200	260	20~24	<22	>330		●		Ultra high purity wht ppt metal ion release
Everflon ^{ultra} ™ FEP	4660	200	260	45~60	<18	<300				Ultra high MFR for color concentrate and compound
Everflon+™ FEP	CC4622	200	260	-	-	-				Color concentrate
Everflon™ FEP	JP46	200	260	8~24	-	-				Powder for coating
Everflon™ FEP	D50	200	260	6~10	-	-				50% content solid dispersion for coating

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			Melting Point °C	MFR g/10min	Temsile Strength Mpa	Elongation %	Molding	Extrusion	Injection	
Everflon™ PFA	403	250	290	2~4	<28	>360	●			Standard PFA extrusion grade
Everflon™ PFA	403S	260	305	2~4	>28	>360	●	●		High temperature than 403
Everflon™ PFA	410	250	290	8~14	<26	>350	●	●	●	Standard PFA injection/extrusion grader
Everflon™ PFA	410S	260	305	8~14	>26	>360		●	●	High temperature than 410
Everflon™ PFA	420	250	290	20~30	<24	>300		●		Standard PFA extrusion grade
Everflon™ PFA	420S	260	305	20~30	>24	>330		●		High temperature than 420
Everflon™ PFA	430	260	305	35~45	<20	>300		●		Extra melt-flow for high speed processing
Everflon+™ PFA	C403	260	300	2~4	>24	>300	●		●	Antistatic chemical lining
Everflon+™ PFA	C410	260	300	6~8	>24	>300		●	●	Conductive PFA
Everflon+™ PFA	C420	260	300	10~14	>24	>300		●	●	Conductive PFA with higher MFR
Everflon ^{ultra} ™ PFA	GC403 iota	260	300	2~4	>28	>360	●	●		High purity wht ppb metal ion release
Everflon ^{ultra} ™ PFA	GC410 iota	260	300	8~14	>26	>360		●		High purity wht ppb metal ion release
Everflon ^{ultra} ™ PFA	GC420 iota	260	300	20~30	>24	>360		●		High purity wht ppb metal ion release
Everflon ^{ultra} ™ PFA	GC403 zero	260	300	2~4	>28	>330	●	●		Ultra high purity wht ppt metal ion release
Everflon ^{ultra} ™ PFA	GC410 zero	260	300	20~30	>26	>360		●	●	Ultra high purity wht ppt metal ion release
Everflon ^{ultra} ™ PFA	GC420 zero	260	300	8~12	>24	>360		●	●	Ultra high purity wht ppt metal ion release
Everflon+™ PFA	CC420	260	300	20~24	-	-				Color Concentrate
Everflon+™ PFA	D450	260	305	6~10	-	-				50% content solid dispersion for coating
Everflon+™ PFA	JP04	250	305	8~20	-	-				Powder for coating
Everflon™ ETFE	4003	150	240	2~5	>28	>360	●	●		Standard ETFE grade
Everflon™ ETFE	4003S	175	260	2~5	<24	>330	●	●		High temperature than 4003
Everflon™ ETFE	4010	150	240	6~12	>28	>360		●	●	Standard ETFE grade
Everflon™ ETFE	4010S	175	260	6~12	<28	>360		●	●	High temperature than 4010
Everflon™ ETFE	4020	150	240	20~30	>22	>330		●	●	Standard ETFE grade
Everflon™ ETFE	4020S	175	260	20~30	<22	>330		●	●	High temperature than 4020
Everflon+™ ETFE	C4003	175	260	45~60	<18	<300		●	●	Conductive ETFE
Everflon+™ ETFE	C4010	175	260	-	-	-		●	●	Conductive ETFE with high melt-flow
Everflon+™ ETFE	CC4020	200	260	-	-	-				Color concentrate
Everflon+™ ETFE	JP40	150	240	6~14	-	-				Powder for coating

- See product technical data sheets for ASTM/ISO test methods.
- Typical properties are not suitable for specification purposes. The User is responsible for evaluating and determining whether this Everflon™ product is suitable and appropriate for a particular use and intended application. The conditions of evaluation, selection, and use of the Everflon™ product can vary widely and affect the use and intended application of the Everflon™ product. Because many of these conditions are uniquely within the User's knowledge and control, User must evaluate and determine whether the Everflon™ product is suitable and appropriate for a particular use and intended application.

When Quality Count Most

Before it leaves our door, every lot of material is subject to a thorough testing regime to ensure the best quality and consistency from lot to lot.

We supply test data with each shipmennt and typical tests are listed hear; other test data can be supplied upon request.

Application development and product enhancement

- **Fomulation and compounding samples using single and twin screw technology**
- **Injection and compression moldig equipment**
- **Film line with 3-roll stack and 600mm film die**

QC Type	Testing Method	E	S	T	M	X	GC iota	GC zero
Melt Flow Index	ASTM	●	●	●	●	●	●	●
Melting Point	ASTM	○	●	●	●	●	●	●
Tensile Strength	ASTM	○	●	●	●	●	●	●
Elongation	ASTM	○	●	●	●	●	●	●
Impurity detection and removal		✕	>30um	>15um	>15um	>30um	>15um	>15um
Heat Resistance	Melt color has no change, no voids at 1 hour	✕	●	●	●	●	●	●
Thermal cracking	10 specimen in 2 hour heatingno crack	✕	>8 pics	>8 pics	✕	>8 pics	○	○
Electrical performance	ASTM	✕	○	✕	✕	○	✕	✕
Metal ion release	ICP-MS	✕	✕	✕	✕	✕	●	●
Extrusion Processing								
Tubing	2*4 or 6*8	✕	●	●	✕	○	●	●
	Stable Melt Temperature Range		●	●		○	●	●
	Critical Shear Rate		●	●		○	●	●
	Finished Tubing Properties Testing		●	●		○	●	●
	Metal ion Release ppb		✕	✕		○	●	●
Insulation	AWG24 or AWG30/UL758	✕	●	✕	✕	●	✕	✕
	Stable Melt Temperature Range		●			●		
	Critical Shear Rate		●			●		
	Physical Data of Unaged and Air Oven Agedg		●			●		
	Heat Shock Test		●			●		
	Customized Special extra item		●			●		
Membrane	50um thickness with 500mm width film	✕	○	✕	●	○	○	○
Injection Processing		✕	○	✕	✕	●	●	●
	Crack resistance(-20~120°C)/12H cycle/7 Days		✕			●	●	●

Comprehensive Technical Solutions

At our state of the art technical center in Wuhan,China. Everflon Fluoropolymers offers personalized technical support and R&D by our industry experts with decades of experience. In addition to global support, our China and USA technical facility is located in proximity to our production plant, which allows us to align our engineering resources, thereby enhancing our materials solutions for our customers.

Supply Chain Management Solutions Created with Your Needs in Mind

We offer our customers optimized freight and packaging solutions to keep transit costs down and inventory control as a priority. Our clearly labeled, sturdy packaging with keep your material free of debris and easily identifiable. A dedicated and cross-functional customer service staff as well as knowledgeable technical sales representative will support your business and strive to understand your requirements to ensure your success.





For more information about our company, products and service, please visit our website at www.everflon.com or www.everflonultra.com

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