MELT-PROCESSABLE DUPONT™ TEFLON® FLUOROPLASTIC RESINS

PRODUCT INFORMATION

Melt-Processable DuPont™ Teflon® Fluoroplastic Resins at a Glance

Melt-processable DuPont™ Teflon® 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 Teflon® fluoroplastic resins: exceptional dielectric properties, high stress-crack resistance, chemical inertness, low flammability, and thermal cycling capabilities.

Resin Type	Resin*	Typical Properties[1,2]									Features
		Upper Service Temperature	Dielectric Constant (1 MHz)	Dissipation Factor (1 MHz)	MFR g/10 min	Melting Point °C	Tensile Strength MPa	Elongation %	Flexural Modulus MPa	Specific Gravity	
Teflon® FEP	FEPD 121	200	—	—	5–10	255–265	—	—	—	2.15	Nominal 55% solids aqueous dispersion of FEP for use in coatings
Teflon® FEP	FEP 140J	200	2.02	0.0007	3	255–265	30	360	586	2.13–2.17	Stress crack resistance
Teflon® FEP	FEP 9302	200	2.03	0.0007	3	260	30	325	655	2.14	High flex life
Teflon® FEP	FEP CJ95	200	2.02	0.0007	5	255	28	300	—	2.14	High flex life, superior stress crack resistance
Teflon® FEP	FEP 130J	200	2.02	0.0007	7	245–270	30	365	480	2.12–2.17	Superior stress crack resistance
Teflon® FEP	FEP 100	200	2.03	0.0006	7	260	27	340	580	2.14	General purpose resin
Teflon® FEP	FEP CJ99	200	2.03	0.0007	9	255	28	300	—	2.14	High flex life, superior stress crack resistance
Teflon® FEP	FEP 9835	200	2.02	0.0006	20	255	24	300	520	2.14	Superior electrical performance at high frequency with improved flex life
Teflon® FEP	FEP 5100J	200	2.01	0.0005	22	255–265	25	370	490	2.13–2.17	Superior electrical performance at high frequency
Teflon® FEP	FEP 106	200	2.02	0.0007	22	255	20	300	655	2.12–2.17	High flex life
Teflon® FEP	FEP 9475	200	2.02	0.0006	30	255	20	300	520	2.14	Fast resin with superior electrical performance at high frequency
Teflon® FEP	FEP 9494	200	2.02	0.0006	30	255	20	300	520	2.14	Fast resin with superior electrical performance at high frequency
Teflon® FEP	FEP 9819FL	200	2.02	0.0006	30	255	20	300	520	2.14	Fluff product used in specialty applications
Teflon® FEP	FEP 6100	200	2.02	0.0006	30	255	20	300	520	2.14	General purpose high speed resin
Teflon® FFR	FFR 430	200	2.03	0.0007	7	260	—	—	—	2.14	Foam grade, improved attenuation on large coax cables
Teflon® FFR	FFR 750	250	2.03	0.0006	12	260–290	—	—	—	2.14	Foam grade, superior attenuation performance and increased production speed on medium to large coax cables
Teflon® FFR	FFR 550	200	2.03	0.0006	14	260	—	—	—	2.14	Foam grade, improved attenuation and highest production speed on medium to large coax cables

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Teflon® FFR	FFR 770	200	2.03	0.0006	30	260	—	—	—	2.14	Foam grade, best suited for thinner wall applications such as data cable primary insulation or micro coax applications, offering superior attenuation and high production speeds
Teflon® FFR	FFR 880	260	2.03	0.0001	42	305	—	—	—	2.14	Highest MFR foam resin best suited for micro and sub micro coax cables, offering the best attenuation, conductor adhesion and resistance to solder flare back
Teflon® PFA	PFA C980	260	—	—	1.80–2.50	280	22	225	700	2.10–2.15	Antistatic chemical lining
Teflon® PFA	PFA C-9068	260	—	—	2.5	283	35	310	640	2.1	Conductive PFA for OA pressure roller
Teflon® PFA	PFA C-5200	260	—	—	3	283	36	320	640	2.105	Electrical/thermal conductive resin with creep resistance
Teflon® PFA	PFA 401RL 421HPRL	260	—	—	5.5–7.5	300–305	27	350	—	2.15	Rotomolding
Teflon® PFA	PFA 9738JN	260	2.03	0.0001	6	305–317	33	430	440	2.12–2.17	Rotomolding and rotolining
Teflon® PFA	PFAD 335D	260	—	—	1–3	302–310	—	—	—	2.15	60% solids aqueous dispersion of PFA for use in coatings
Teflon® PFA	PFA 340	260	2.03	0.0001	14	302–310	25	300	590	2.12–2.17	Standard PFA injection grade
Teflon® PFA	PFA 345	260	2.03	0.0001	5	302–310	29	300	690	2.15	Standard PFA injection/extrusion grade
Teflon® PFA	PFA 350	260	2.03	0.0001	2	302–310	28	300	625	2.12–2.17	Standard PFA extrusion grade
Teflon® PFA	PFA 416HP	260	2.03	0.0001	42	302–310	25	350	490	2.12–2.17	High purity resin with high melt-flow, superior electrical performance at high frequency, and improved flex life
Teflon® PFA	PFA 420HPJ	260	2.03	0.0001	25–38	302–310	29	390	490	2.12–2.17	High purity resin with high melt-flow and superior electrical performance at high frequency
Teflon® PFA	PFA 440HPA	260	2.03	0.0001	14–19	302–310	25	300	590	2.12–2.17	High purity injection molding grade
Teflon® PFA	PFA 440HPB	260	2.03	0.0001	12–15	302–310	25	300	590	2.12–2.17	High purity injection molding grade
Teflon® PFA	PFA 441HP	260	2.03	0.0001	12–18	302–310	30	350	—	2.12–2.17	High purity injection molding grade with low permeation and improved flex life
Teflon® PFA	PFA 445HP	260	2.03	0.0001	5	302–310	26	320	550	2.12–2.17	High purity injection molding and extrusion grade
Teflon® PFA	PFA 450HP	260	2.03	0.0001	2	302–310	28	300	625	2.12–2.17	High purity extrusion grade with superior chemical and creep resistance
Teflon® PFA	PFA 451HP	260	2.03	0.0001	2	302–310	33	360	410	2.12–2.17	High purity extrusion grade with low permeation and easy processability
Teflon® PFA	PFA 940HP PLUS	260	2.03	0.0001	14–19	285–300	28	310	650	2.12–2.17	High purity injection molding grade with lowest permeation and high flex life
Teflon® PFA	PFA 945HP PLUS	260	2.03	0.0001	5–7	285–300	28	290	600	2.12–2.17	High purity injection molding grade with lowest permeation and high flex life

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Teflon® PFA	PFA 950HP PLUS	260	2.03	0.0001	2	285–300	28	260	600	2.12–2.17	High purity extrusion grade with lowest permeation and high flex life
Teflon® PFA	PFA 951HP PLUS	260	2.03	0.0001	2	300–320	28	290	600	2.12–2.17	High purity extrusion grade with lowest permeation and easy processability
Teflon® PFA	PFA 9724	260	2.03	0.0001	12	302–310	25	300	590	2.12–2.17	Fluff 340; used for compounding
Teflon® PFA	PFA 9725	260	2.03	0.0001	1.7	302–310	26	300	625	2.12–2.17	Fluff 350; used for compounding
ECCtreme®	ECA 3000	300	2.05	<0.00015	7	320	19	330	—	2.12–2.17	High temperature resistance resin; large gauge wire extrusion, molding
ECCtreme®	ECA 4000	300	2.05	<0.00015	14	320	19	330	—	2.12–2.17	High temperature resistance resin; fine wire extrusion
Tefzel® ETFE	ETFE 280	150	2.05	<0.00015	4	255–280	47	300	1200	1.7	Standard ETFE grade
Tefzel® ETFE	ETFE HT2181	150	2.5–2.6	0.007	6	255–280	40	300	1000	1.7	Standard ETFE grade
Tefzel® ETFE	ETFE HT2183	150	2.5–2.6	0.007	6	255–280	40	300	1000	1.7	Improved stress crack resistance
Tefzel® ETFE	ETFE HT2184	150	—	—	6	255–280	40	300	1000	1.7	Powder product used in specialty applications
Tefzel® ETFE	ETFE 200	150	2.5–2.6	0.008	7	255–280	45	300	1200	1.7	Standard ETFE grade
Tefzel® ETFE	ETFE 750	200	2.5–2.6	0.006	7	220–255	38	300	645	1.76	Superior stress crack and mechanical properties at high temperature
Tefzel® ETFE	ETFE HT2185	150	2.5–2.6	0.008	11	255–280	40	300	1000	1.7	Higher flow ETFE grade
Tefzel® ETFE	ETFE HT2195	150	—	—	20	253	—	—	—	1.73	Rotolining and rotomolding grade
Tefzel® ETFE	ETFE 207	150	2.5–2.6	0.007	30	250–280	40	300	1000	1.74	Excellent for ultra thin wall wire and small injection parts
Tefzel® ETFE	ETFE HT2160	150	—	—	1.5	255–280	38	200	—	1.7	Static dissipative ETFE grade
Tefzel® ETFE	ETFE HT2170	150	—	—	2	220–255	40	200	—	1.75	Static dissipative ETFE grade
Tefzel® ETFE	ETFE HT2188	150	2.5–2.6	0.009	14	220–240	40	300	800	1.7	Low melting ETFE grade with improved stress crack resistance
Tefzel® ETFE	ETFE HT2202	150	—	—	7	255–280	35	250	1000	1.7	Adhesively modified ETFE grade
Tefzel® ETFE	ETFE HT2202HS	150	—	—	30	250–280	35	250	1000	1.7	High speed, adhesively modified ETFE grade

[1] See product technical data sheets for ASTM/ISO test methods.

[2] Typical properties are not suitable for specification purposes. The User is responsible for evaluating and determining whether this DuPont product is suitable and appropriate for a particular use and intended application. The conditions of evaluation, selection, and use of the DuPont product can vary widely and affect the use and intended application of the DuPont product. Because many of these conditions are uniquely within the User's knowledge and control, User must evaluate and determine whether the DuPont product is suitable and appropriate for a particular use and intended application.

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