

**FLAME RETARDANT POLYPROPYLENE**

<b><u>Property</u></b>	<b><u>Unit</u></b>	<b><u>Value</u></b>	<b><u>Test Method</u></b>
Nominal Melt Flow (at 230° C / 2.16 kg)	g/10 min	0.75	ASTM D1238
Density (at 73° F)	g/cm <sup>3</sup>	0.901	ASTM D792
Tensile Strength (at Yield)	psi	3400	ASTM D638
Elongation at Yield	%	15	ASTM D638
Modulus of Elasticity	psi	150,000	ASTM D790A
Izod Impact, notched (at 73° F – 1/8" bar)	ft-lb/in	13	ASTM D256
Rockwell Hardness	R scale	77	ASTM D785
Melting Point	° F	324	Aristech
	° C	162	Aristech
Specific Gravity	—	.905	ASTM D792
Water absorption (24hrs @73° )F	%	.02	ASTM D570
<u>Flammability</u>			
Rate of Burning	cm/min	1.25	ASTM D635
Smoke Density Rating	%	48	ASTM D2843
Burning Class	—	V-2	UL 94
Limiting Oxygen Index	%	17	ASTM D2863
Polypropylene Material	Cell Class	PP0348	ASTM D4101
Corrosive Waste Drainage System		Complies	ASTM F1412

**NON-FLAME RETARDANT POLYPROPYLENE**

<b><u>Property</u></b>	<b><u>Unit</u></b>	<b><u>Value</u></b>	<b><u>Test Method</u></b>
Nominal Melt Flow (at 230° C / 2.16 kg)	g/10 min	0.75	ASTM D1238
Density (at 73° F)	g/cm <sup>3</sup>	0.901	ASTM D792
Tensile Strength at Yield	psi	3400	ASTM D638
Elongation at Yield	%	15	ASTM D638
Modulus of Elasticity	psi	150,000	ASTM D790A
Izod Impact, notched at 73° F – 1/8" bar	ft-lb/in	13	ASTM D256
Rockwell Hardness	R scale	77	ASTM D785
Melting Point	° F	324	Aristech
	° C	162	Aristech
Specific Gravity		.905	ASTM D792
Water absorption 24hrs @73° F	%	.02	ASTM D570
Polypropylene Material	Cell Class	PP 0348	ASTM D4101
Corrosive Waste Drainage System		Complies	ASTM F1412

**PVDF**

<b><u>Property</u></b>	<b><u>Unit</u></b>	<b><u>Value</u></b>	<b><u>Test Method</u></b>
Specific Gravity		1.76	ASTM D-792
Water Absorption 24 Hrs.@ 73°F	%	.03	ASTM D-570
Tensile Strength psi @ 73° F	psi	6,000	ASTM D-638
Modulus of Elasticity @73°F	psi	210,000	ASTM D-638
Flexural Modulus psi	psi	9,700	ASTM D-790
Izod Impact Strength @ 73°F (Notched)	Ft-Lb/In	3.8	ASTM D-256
Hardness	Shore D	78	ASTM D-2240
Melting Point	°F	330	ASTM D-3418
Coefficient of Thermal Expansion	In/In°F x 10 <sup>-5</sup>	7.4	ASTM D-696
Thermal Conductivity	BTU-in/HR/Sq.Ft./°F	1.18	ASTM D-433
Heat Distortion Temp. @ 66psi	psi	251	ASTM D-648
Heat Distortion Temp. @ 264psi	psi	221	ASTM D-648
Resistance to Heat at Continuous Drainage	°F	230	
Limiting Oxygen Index (%)	%	44	ASTM D-2836
Flame Spread		0-5	ASTM E-84
Smoke Developed		35	ASTM E84
Underwriters Lab Rating (sub. 94)		V-0	UL. 94
PVDF Material	Class	Type I, Grade II	ASTM D3222
Corrosive Drainage Waste System		Complies	ASTM F1673