



## Melt Behavior of Select Kynar® Grades<sup>1</sup>

Property	Melt Viscosity	Melt Flow Rate	Melt Flow Rate Load
Test Method/Conditions Units:	(ASTMD3835, 232°C) KPOISE@100 SEC -1	(ASTMD1238, 232°C) g/10 min	- lb (kg)
Kynar® 340	N/A	3.0 - 8.0	22.0 (10.0)
Kynar® 460	23.5 - 29.5	6.0 - 14.0	47.5 (21.6)
Kynar® 710	4.0 - 8.0	19.0 - 35.0	8.36 (3.8)
Kynar® 720	5.5 - 12.0	5.0 - 26.5	8.36 (3.8)
Kynar® 740	15.0 - 23.0	1.5 - 3.0	11.0 (5.0)
Kynar SuperFlex® 2500-20	9.0 - 16.0	1.0 - 15.0	8.36 (3.8)
Kynar Flex® 2750-01	20.0 - 25.0	4.0 - 14.0	27.5 (12.5)
Kynar Flex® 2800-00	22.0 - 27.0	3.0 - 8.0	27.5 (12.5)
Kynar Flex® 2800-20	12.0 - 20.0	1.0 - 8.0	11.0 (5.0)
Kynar Flex® 2850-00	23.0 - 27.0	3.0 - 8.0	27.5 (12.5)
Kynar Flex® 2850-07	16.0 - 20.0	10.0 - 20.0	27.5 (12.5)
Kynar Flex® 3120-10	9.0 - 13.0	4.0 - 12.0	8.36 (3.8)
Kynar Flex® 3120-50	20.0 - 26.0	2.5 - 7.5	27.5 (12.5)
Kynar® 3312C	17.0 - 29.0	7.0 - 15.0	22.0 (10.0)
Kynar Ultraflex® B	12.0 - 20.0	N/A	N/A

## General Property Profile<sup>(1)</sup> of Kynar® Fluoropolymer Resins

			Kynar® RESIN GRADE						
Physical Property	Test Method	Units	460	700 Series	2500	2750/ 2950	2800/ 2900	2850	3120 <sup>2</sup>
Melting Point Range	ASTM 03418	°F	311 - 320	329 - 340	242 - 257	266 - 280	284 - 293	311 - 320	322 - 334
		°C	155 - 160	165 - 172	117 - 125	130 - 138	140 - 145	155 - 160	161 - 168
Specific Gravity	ASTM 792	-	1.75 - 1.77	1.77 - 1.79	1.80 - 1.82	1.78 - 1.80	1.77 - 1.80	1.77 - 1.80	1.77 - 1.80
Refractive Index	ASTM D542	-	1.42	1.42	1.40	1.41	1.41	1.42	1.41
Water Absorption	ASTM D570	%	0.02 - 0.04	0.01 - 0.03	0.04 - 0.07	0.03 - 0.06	0.03 - 0.05	0.03 - 0.05	0.03 - 0.05
Tensile Strength at Yield	ASTM D638	psi	5,000 - 7,500	6,500 - 8,000	1,700 - 2,800	2,000 - 3,100	2,900 - 5,000	4,500 - 6,000	3,500 - 5,000
Tensile Strength at Break	ASTM D638	psi	4,500 - 7,000	5,000 - 8,000	2,000 - 4,500	2,900 - 4,000	2,500 - 5,000	4,000 - 7,000	5,000 - 7,000
Elongation at Yield	ASTM D638	%	10 - 15	5 - 10	12 - 25	15 - 25	10 - 20	5 - 15	10 - 20
Elongation at Break	ASTM D638	%	50 - 150	20 - 100	500 - 800	200 - 400	100 - 300	30 - 200	200 - 500
Tensile Modulus	ASTM D638	psi	150 - 200x10 <sup>3</sup>	200 - 335x10 <sup>3</sup>	35 - 55 x10 <sup>3</sup>	40 - 65 x10 <sup>3</sup>	80 - 130 x10 <sup>3</sup>	150 - 220 x10 <sup>3</sup>	100 - 170 x10 <sup>3</sup>
Flexural Modulus	ASTM D790	psi	200 - 260x10 <sup>3</sup>	240 - 335x10 <sup>3</sup>	28 - 40 x10 <sup>3</sup>	40 - 60 x10 <sup>3</sup>	80 - 110 x10 <sup>3</sup>	150 - 180 x10 <sup>3</sup>	90 - 120 x10 <sup>3</sup>
Unnotched Impact Strength	ASTM D256	ft-lb/in	15 - 40	20 - 80	Non Break	Non Break	Non Break	Non Break	Non Break
Notched Impact Strength	ASTM D256	ft-lb/in	1.8 - 4	1.8 - 4	Non Break	Non Break	10 - 20	2 - 8	Non Break
Hardness	ASTM D2246	Shore D	75 - 80	76 - 80	50 - 57	57 - 62	65 - 70	70 - 75	65 - 70
Limited Oxygen Index	ASTM D2868	% O <sub>2</sub>	44	44/60 <sup>3</sup>	42/95 <sup>3</sup>	43/95 <sup>3</sup>	42/75 <sup>3</sup>	43/75 <sup>3</sup>	42/95 <sup>3</sup>
Vertical Burn	UL94	-	V-0	V-0	N/A	V-0	V-0	V-0	N/A

(1) These are typical values, not to be construed as sales specifications

(2) 3120 available as 3120-10 (low viscosity) and 3120-50 (high viscosity) Kynar® RESIN GRADE

(3) Optional product available with higher LOI

(4) N/A = data not available

\* Kynar® PVDF can be colored by Arkema Inc. or color concentrates are available via recommended compounders.

## For more information on Kynar® PVDF

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