

Ultra Fend AR

Description	Property	Test Method	Unit	Value
Ultra High Molecular Weight Polyethylene crosslinked virgin grade, averaging 3.1 - 6 million molecular weight, in full compliance with ASTM 4020-81 standards. Fully UV Stabilized formulations are available in black or colors. Contact us for standard or custom color requirements.	Specific Gravity	ASTM D792	g/cm ³	.93-.94
	Tensile, Ultimate	ASTM D638	psi	5600-6100
	Elongation at Break	ASTM D638	percent	350-390
	Flexural Modulus	ASTM D790	PSI (1,000s)	110-130
	Thermal Expansion	ASTM D648	in/in/°F	5.5x10 ⁻⁵
	Hardness R	ASTM D785	--	64-69
	Abrasion	Sand Slurry	--	7 (best)
	Izod Impact	ASTM D256	ft.lbs./notch	No break
	Izod Impact (Modified w/double notch)	ASTM D256A	ft.lbs./notch	20-26
	Coefficient of Friction (vs. Steel)	ASTM D1894	--	.11-.20

Ultra Fend

Description	Property	Test Method	Unit	Value
Ultra High Molecular Weight Polyethylene averaging 3.1 - 6 million molecular weight, in full compliance with ASTM 4020-81 standards. Fully UV Stabilized formulations are available in black or colors. Contact us for standard or custom color requirements.	Specific Gravity	ASTM D792	g/cm ³	.935-.945
	Tensile, Ultimate	ASTM D638	psi	6300-6900
	Elongation at Break	ASTM D638	percent	400-450
	Flexural Modulus	ASTM D790	PSI (1,000s)	110-130
	Thermal Expansion	ASTM D648	in/in/°F	9.0x10 ⁻⁵
	Hardness R	ASTM D785	--	63-68
	Abrasion	Sand Slurry	--	16 (good)
	Izod Impact	ASTM D256	ft.lbs./notch	No break
	Izod Impact (Modified w/double notch)	ASTM D256A	ft.lbs./notch	23-29
	Coefficient of Friction (vs. Steel)	ASTM D1894	--	.11-.20

Poly Fend

Description	Property	Test Method	Unit	Value
Ultra High Molecular Weight Polyethylene, mechanical blend of virgin UHMW resin & ground UHMW chips, averaging 3.1 - 6 million molecular weight, in full compliance with ASTM 4020-81 standards. Fully UV Stabilized formulations are available in black or colors. Contact us for standard or custom color requirements.	Specific Gravity	ASTM D792	g/cm ³	.94-.955
	Tensile, Ultimate	ASTM D638	psi	4200-5100
	Elongation at Break	ASTM D638	percent	300-350
	Flexural Modulus	ASTM D790	PSI (1,000s)	102-120
	Thermal Expansion	ASTM D648	in/in/°F	9.0x10 ⁻⁵
	Hardness R	ASTM D785	--	65-70
	Abrasion	Sand Slurry	--	14 (good)
	Izod Impact	ASTM D256	ft.lbs./notch	No break
	Izod Impact (Modified w/double notch)	ASTM D256A	ft.lbs./notch	18-24
	Coefficient of Friction (vs. Steel)	ASTM D1894	--	.11-.20