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Ethyl Vinyl Acetate (EVA)

Ethyl Vinyl acetate (EVA) is one of the more common additives, and a term often used synonymously with crosslinked polyethylene (XLPE). EVA is a copolymer of ethylene and contains wide range percentage of VA. The VA additive enhances the typical properties such as tensile, tear, elongation, and compression set, while providing greater resilience and a smooth soft feel. Common applications for EVA foams are medical applications, athletic pads, boat seating, and footwear.

Typical Properties Comparison

			XP-20	EV-20D	EV-20E (Super Soft)	XP-30	EV30	XP-40	EV-40
Color Available	Color Code			GY, WH, CH	NA		CH		WH
Density	ASTM D3575	PCF	2	2	2	3	3	4	4
		kg/m3	32	32	32	48	48	64	64
Tensile Strength	ASTM D3575	psi	40	50	63	70	60	85	70
		kPa	275	345	434	482	414	586	482
Tear Strength	ASTM D3575	lb/in	10	11	11	15	15	18	18
		kg/m	178	196	196	267	268	321	321
Elongation	ASTM D3575	%	225	290	350	240	400	250	450
Firmness	ASTM D2240	Asker C	25	15	10	35	23	45	28
Compression Set @50%	ASTM D3575 <i>Suffix B</i>	%	<20	<18	<20	<15	<15	<12	<12
Compression Deflection @25%	ASTM D3575 <i>Suffix D</i>	psi	9	9	3.5	12	9	14	10
		kPa	62	62	24	83	62	96	72
Compression Deflection @50%	ASTM D3575 <i>Suffix D</i>	psi	17	17	9	21	18	25	18
		kPa	117	117	62	145	124	172	123

Color Code Chart

CH	WH	NA	GY
Charcoal	White	Natural	Grey

*Testing done according to ASTM D3575 & ASTM C177 (thermal conductivity) standards.

The data represented on this technical data sheet should be used as a guideline for product selection. This data is not intended to represent, replace or be used as a proxy for a specific product sales specification. The physical properties are averages based on limited production runs and are subject to change as additional data becomes available.