



NexPrene NSF Grades

DESCRIPTION:

NexPrene® thermoplastic vulcanizates (TPVs) are fully cross-linked EPDM/PP compounds designed to replace thermoset elastomers, such as polychloroprene (Neoprene) or EPDM, and conventional thermoplastic rubber. NexPrene 1300 grades comply with FDA and NSF / ANSI Standard 61. NexPrene rubber provides the advantage of low cost thermoplastic processing, such as injection molding, extrusion, and blowmolding.

APPLICATIONS:

NexPrene 1300 grades are suitable for potable water material components such as valves, gaskets, peristaltic pump tubes, diaphragms, tubing and seals.

Property	ASTM	Units	1355A	1360A	1364A	1370A	1375A	1380A	1384A	1387A	1340D	1345D	1350D
Hardness	D-2240												
Extrusion	5 sec	Shore A/D	51A	56A	59A	66A	71A	78A	80A	84A	38D	43D	47D
Injection Molded	5 sec	Shore A/D	55A	60A	64A	70A	73A	80A	84A	87A	40D	45D	50D
Specific Gravity	D-792		0.97	0.97	0.97	0.97	0.97	0.97	0.96	0.96	0.94	0.95	0.94
Tensile Strength	D-412	MPa	6.5	7	7.6	8.7	10	12.4	14.5	16.8	20.1	23.3	27.5
Tensile Modulus @100%	D-412	MPa	2.2	2.4	2.7	3.1	3.6	4.7	5.5	6.1	8.9	9.1	9.4
Ultimate Elongation	D-412	%	400	500	540	611	631	631	525	550	570	577	610
Tear Strength Die C	D-624	kN/m	31	32	34	41	47	57	59	60	74.5	81.4	97.1
IRM 903 Oil Swell 70 hr@125°C	D-471	%	110	110	110	100	90	85	82	80	65	45	37
Compression Set	D-395												
22 hr @ 70°C		%	27	28	29	32	35	40	43	48	55	57	61
Ozone Resistance	D-1149												
500 hr @ 100 ppm ozone concentration			Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good

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