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NexPrene™ TPV rubber : EPDM/PP Thermoplastic Vulcanizate

Technical Data Sheet

A fully cross-linked EPDM/PP TPV compounds designed to replace thermoset elastomers such as polychloroprene (Neoprene), EPDM as well as Santoprene TPV. NexPrene™ TPV rubber provides the advantage of low-cost thermoplastic processing as well as performance of vulcanized thermoset rubber. Suitable for numerous components in the following market segments: Automotive, Appliance (white goods), Business machines, Construction, Consumer products, Electrical & Electronics, Food contact, Fluid delivery, Hardware and Medical devices.

NexPrene™ TPV rubber : General Purpose Grades

Typical Physical Property	ASTM	UNITS	140A	145A	150A	155A	160A	165A	170A	175A	180A	184A	187A	240D	245D	250D
Hardness: Extrusion (5seconds) I. Molded (5seconds)	D-2240	A or D	36A	41A	46A	51A	56A	59A	66A	71A	77A	80A	84A	38D	43D	47D
			40A	45A	50A	55A	60A	64A	70A	75A	81A	84A	87A	41D	45D	50D
Specific Gravity	D-792		0.93	0.94	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.96	0.96	0.94	0.93	0.93
Tensile Strength	D-412	MPa	5	5.2	6.3	6.5	7	7.6	8.7	10	12.4	14.5	16.8	20.1	24.3	29.2
Tensile Modulus @ 100%	D-412	Mpa	0.9	0.96	1.6	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	%	800	850	400	427	500	540	611	631	649	525	550	570	575	600
Tear Strength, Die C	D-624	KN/m	11.5	13	17	31	32	34	41	47	57	59	60	74.5	81.4	97.1
IRM 903 Oil, Vol Swell (125C/70hrs)	D-471	%	130	125	120	110	110	110	100	90	85	82	80	65	45	37
Compression Set: 22hr/70C	D-395	%	26	26	27	27	28	29	32	35	40	43	45	60	57	69
Ozone Resistance 500hrs/100pphm ozone conc.	D-1149	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good

All information supplied by TPE Solutions, Inc. are believed to be correct. It is supplied upon the express condition that the customer shall make its own assessment to determine the product suitability for a particular use.

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Specialty Grades Are Also Available