sarlink® TPV

3100 SERIES

GENERAL PURPOSE TPVs

TYPICAL PROPERTIES	TEST STANDARD	UNITS S.I.	3135	3140	3150	3160	3170	3180	3190	3139D	3145D
DENSITY	ISO 1183	kg/m³	930	930	950	950	950	950	940	940	940
HARDNESS (5 SEC DELAY)		Shore									
Extruded sample	ISO 868	A	38A	41A	54A	62A	71A	80A	89A	38D	47D
Injection molded sample		or D	43A	46A	56A	65A	75A	84A	92A	41D	50D
TENSILE PROPERTIES											
Flow direction											
Tensile strength at break	ISO 37	MPa	2.2	2.5	4.1	5.4	6.7	8.5	12.1	17.4	19.4
Modulus at 100% elongation		MPa	2.1	2.5	3.0	3.8	5.1	6.7	10.0	13.3	15.5
Elongation at break		%	200	210	240	270	300	330	380	400	400
Cross flow direction											
Tensile strength at break		MPa	4.0	4.4	5.1	6.3	7.7	9.4	13.5	18.5	22.5
Modulus at 100% elongation		MPa	1.1	1.2	1.9	2.5	3.3	4.5	6.6	8.9	12.8
Elongation at break		%	600	600	600	640	670	690	700	700	700
TEAR STRENGTH											
Cross flow direction	ISO 34B										
Unnicked angle		kN/m	15	16	24	32	42	51	81	101	131
COMPRESSION SET											
22 hrs @ 23°C	ISO 815	%	15	18	20	23	25	32	48	53	57
22 hrs @ 70°C		%	30	31	32	34	43	50	61	67	70
70 hrs @ 125°C		%	52	52	52	55	63	65	75	85	90
HOT AIR AGING											
Cross flow direction											
168 hrs @ 150°C											
Change in hardness	ISO 188	pts	1	1	2	3	3	2	2	1	2
Change in tensile strength at break		%	4	11	7	-1	-4	-8	-5	-7	-5
Change in modulus at 100% elongation		%	11	6	5	7	5	9	11	11	8
Change in elongation at break		%	1	7	8	-11	-14	-16	-12	-11	-11
1000 hrs @ 135°C											
Change in hardness		pts	-1	-1	1	2	-1	0	-1	0	1
Change in tensile strength at break		%	0	12	-6	-4	-8	-9	-10	-5	2
Change in modulus at 100% elongation		%	4	5	7	3	10	17	9	9	16
Change in elongation at break		%	-2	12	-7	-5	-13	-15	-15	-10	-11
VOLUME SWELL	ISO 1817										
70 hrs @ 125°C in IRM 903 oil		%	150	135	130	120	115	95	73	55	52
APPARENT SHEAR VISCOSITY	ISO 11443										
@ 206 1/s, 200°C	Capillary	Pa.s	270	270	270	310	290	290	310	310	310

FEATURES

- Well-balanced flow characteristics for a superior surface appearance
- Available from 35 Shore A to 45 Shore D, in black and natural
- Excellent melt elasticity
- Partially cross-linked
- Versatile, can be processed by injection or blow molding and extrusion

TRANSPORTATION SEGMENTS

- Sealing Systems
- Exterior
- Interior
- Under the Hood

Revised November 2015

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