sarlink® TPV

4100 SERIES

HIGH PERFORMANCE TPVs

TYPICAL PROPERTIES	TEST STANDARD	UNITS S.I.	4145	4155	4165	4175	4180	4190	4139D	4149D
DENSITY	ISO 1183	kg/m^3	960	960	960	960	960	950	950	940
HARDNESS (5 SEC DELAY)		Shore								
Extruded sample	ISO 868	A	45A	53A	63A	72A	79A	86A	39D	47D
Injection molded sample		or D	48A	56A	65A	75A	83A	90A	40D	51D
TENSILE PROPERTIES										
Flow direction										
Tensile strength at break	ISO 37	MPa	3.1	4.3	5.8	7.2	9.0	13.6	18.0	21.6
Modulus at 100% elongation		MPa	2.6	3.1	4.2	5.3	6.8	10.2	13.3	18.0
Elongation at break		%	180	240	280	300	330	380	420	420
Cross flow direction										
Tensile strength at break	ISO 37	MPa	4.3	5.2	6.8	8.5	10.2	14.5	19.0	23.1
Modulus at 100% elongation		MPa	1.3	2.0	2.5	3.3	4.5	6.7	8.9	13.0
Elongation at break		%	550	550	570	590	620	650	7 00	740
TEAR STRENGTH										
Cross flow direction	ISO 34B	kN/m	20	22	29	39	48	71	97	140
Unnicked angle										
COMPRESSION SET										
22 hrs @ 23°C	ISO 815	%	11	14	17	22	26	36	46	55
22 hrs @ 70°C		%	26	26	27	31	40	48	56	64
70 hrs @ 125°C		%	35	37	40	45	58	72	80	85
HOT AIR AGING										
Cross flow direction										
168 hrs @ 150°C	ISO 188	pts	0	2	2	3	2	3	2	2
Change in hardness		%	-5	-9	-11	-9	-10	-8	-15	-15
Chang in tensile strength at break		%	-3	-2	0	3	5	10	15	15
Change in modulus at 100% elongation		%	6	-6	-11	-16	-15	-17	-20	-20
Change in elongation at break										
1000 hrs @ 135°C										
Change in hardness	ISO 188	pts	2	2	2	2	3	3	2	2
Change in tensile strength at break		%	-2	-5	-9	-2	-9	-11	-15	-8
Change in modulus at 100% elongation		%	0	2	4	5	10	15	20	25
Change in elongation at break		%	13	1	-8	-5	-15	-16	-20	-20
VOLUME SWELL	ISO 1817									
70 hrs @ 125°C in IRM 903 oil		%	110	85	83	78	64	54	47	38
APPARENT SHEAR VISCOSITY	ISO 11443									
@ 206 1/s, 200°C	Capillary	Pa.s	320	320	340	340	340	340	370	440

FEATURES

- Excellent chemical and abrasion resistance
- Fully cross-linked
- Low tension and compression set
- Low oil swell
- Excellent flex-fatigue resistance
- Available from 45 Shore A to 50 Shore D, in black and natural
- Versatile, can be processed by injection molding, extrusion, or blow molding

TRANSPORTATION SEGMENT

- Interior
- Under the Hood

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AMERICAS
505 Central Avenue
Pawtucket, RI 02861 USA
401-725-8000 | 800-556-3862

EUROPE
Mijnweg 1
6167AC Geleen, Netherlands
31(0) 46 7020950

ASIA
41 Shipyard Road
Singapore 028134
(011) 65-6265-2544

TEKNOR APEX
tpe@teknorapex.com | www.teknorapex.com