

Sevrene® 4582-90A

Thermoplastic Elastomer

Vi-Chem Corporation

Message:

Sevrene®4582-90A is a thermoplastic elastomer (TPE) material. This product is available in North America.

General Information			
Physical	Nominal Value	Unit	Test Method
Density	0.958	g/cm ³	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	90		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
--	16.4	MPa	ISO 527-2/5A
100% strain	6.20	MPa	ISO 527-2
Tensile Strain (Break)	740	%	ISO 527-2/5A
Scratch Resistance ¹	2.00		
Change in Tear Strength ² (100°C)	7.4	%	ISO 188
Bending test ³ (100°C)	No Cracking		ISO 188
Fogging	96.0		SAE J1756
Fade Resistance ⁴	4.00		SAE J1885
Florida Weathering - Under Glass ⁵	4-5 AATCC		
Stain Resistance ⁶	4 AATCC		
Odor rating ⁷	2.00		
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁸	50	kN/m	ISO 34-1
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (100°C, 1000 hr)	-18	%	ISO 188
Change in Tensile Strain at Break in Air (100°C, 1000 hr)	-18	%	ISO 188
Change in Shore Hardness in Air (100°C, 1000 hr)	-4.0		ISO 188
Thermal	Nominal Value		Test Method
Brittleness Temperature (Type B)	No Cracking		ISO 812
Flammability	Nominal Value	Unit	Test Method
Burning Rate ⁹	55	mm/min	ISO 3795
Additional Information	Nominal Value		Test Method

Suntan Lotion and Insect Repellant Resistance

Room Temperature, Suntan Lotion: Rating 1

Room Temperature, Insect Repellant Rating 1

74°C Temperature, Suntan Lotion: Rating 1

74°C Temperature, Insect Repellant Rating 2

Soiling and Cleanability of Interior Trim Rating, AATCC Evaluation, Procedure 1, FLTM BN 112-08; ISO 105-A02

NLGI 2 Grease: Rating 4-5

Orange Juice: Rating 4

Coffee: Rating 4-5

Synthetic Soil: Rating 4-5

Ketchup: Rating 4

Cleaning Agent Resistance, AATCC FLTM BN 107-01, 10 Cycles, Procedure 2

Dry: : Rating 5

Deionized Water: Rating 5

Window Cleaner containing ammonia: Rating 4-5

All Purpose Cleaner: Rating 5

Isoproopyl Alcohol/Water 50:50: Rating 4-5

NOTE

1.	FLTM BN 108-13, 1mm Stylus
2.	1000 hr
3.	180° flat against itself, 1000 hr
4.	1240.8 kJ/m ² , deltaE = 1.51, Black
5.	FLTM BI 160-01, 12 months, deltaE = 0.42
6.	FLTM BN 103-10, Procedure 3
7.	FLTM BO 131-01
8.	Method B, right-angle specimen (without cut)
9.	SAE J369

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