



LION
ELASTOMERS

ROYALENE[®] EPDM

TRILENE[®] LIQUID EPDM

**ROYALENE[®] EPDM | ROYALEEDGE[®] EPDM | ROYALTHERM[®] EPDM
TRILENE LIQUID[®] EPDM**

Royalene[®] EPDM and RoyalEdge[®] EPDM are used in a wide variety of applications that require superior heat, ozone and chemical resistance, excellent long-term aging and outstanding weathering.

Trilene Liquid[®] EPDM Polymers represent a class of specialty low molecular weight EPDM polymers that are available in liquid or free-flow powder form.

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ROYALENE® EPDM

Royalene® EPDM is used in a wide variety of elastomeric applications that require superior heat, ozone and chemical resistance, excellent long term aging and outstanding weathering. Royalene® applications include automotive, industrial and consumer hoses, weatherseals, molded goods, wire and cable insulations, window profiles, roof sheeting, thermoplastic elastomers, and viscosity modifiers for lubricants.

Royalene® EPDM	Mooney ML 1+4	Wt. % Diene	E/P Ratio
301T	40 (125°C)	3.1 DCPD	67/33
400 ^(a)	37 (125°C)	3.0 DCPD	67/33
505	55 (125°C)	8.0 ENB	60/40
509	55 (125°C)	8.0 ENB	71/29
510	65 (125°C)	4.5 ENB	75/25
511	45 (100°C)	4.6 ENB	57/43
512	57 (125°C)	3.9 ENB	68/32
515	82 (150°C)	9.5 ENB	62/38
525	65 (125°C)	8.1 ENB	60/40
535	53 (100°C)	9.4 ENB	60/40
539	70 (125°C)	4.6 ENB	74/26
547	57 (150°C)	10.0 ENB	63/37
556	60 (125°C)	4.5 ENB	71/29
563	75 (125°C)	4.5 ENB	60/40
580 HT	60 (100°C)	2.7 ENB	53/47
591	70 (125°C)	2.4 ENB	68/32
645 ^(c)	48 (125°C)	8.5 ENB	66/34
677 ^(a)	50 (125°C)	4.5 ENB	70/30
694 ^(c)	48 (125°C)	4.5 ENB	70/30
868 XE	67 (150°C)	6.0 ENB	72/28

(a) Product contains 100 phr (50%) white, hydrotreated paraffinic oil.

(b) Product contains 15 phr (13%) white, hydrotreated paraffinic oil.

(c) Product contains 75 phr (43%) white, hydrotreated paraffinic oil.

ROYALEGE® EPDM

RoyalEdge®EPDM is used in a wide variety of elastomeric applications that require superior heat, ozone and chemical resistance, excellent long term aging and outstanding weathering. RoyalEdge® EPDM products are terpolymers of ethylene, propylene and a non-conjugated diene (ENB or DCPD) that vary in viscosity, ethylene/propylene ratio, and type and amount of diene according to desired processability and end properties.

RoyalEdge® EPDM	Mooney ML 1+4	Wt. % Diene	E/P Ratio
5041	25 (125°C)	2.8 DCPD	75/25

ROYALTHERM® EPDM

Royaltherm® is a silicone-modified EPDM. It is ideally suited for high temperature applications. Compared to normal EPDM, Royaltherm® provides better heat and weather resistance. Compared to silicone, it provides better tensile strength, flex fatigue resistance and other mechanical properties. It exhibits good electrical properties in moist conditions and, unlike silicone, retains physical properties even in hermetically sealed environments.

Royaltherm® EPDM	Mooney ML 1+4	Cured Hardness Shore A (Peroxide Cure)
1411A	23 - 37	30 - 40
1721	50 - 65	55 - 65

TRILENE® LIQUID EPDM

Trilene® Liquid EPDM represents a class of specialty lower molecular weight EPDM polymers that are available in liquid or free-flow powder form. Trilene is used in gear oils and greases, caulks, adhesives, roof coatings and many other applications that require a low molecular weight liquid EPDM product having the characteristics of conventional EPDM. Trilene Freeflow® products are free-flowing polymers made by combining Trilene Liquid EPDM and silica. Trilene grades that have a freeflow equivalent will have (FF) beside the product number, and the properties will be designated in a similar fashion under the respective columns.

Trilene® EPDM	Wt. % Diene	E/P Ratio
65 (FF)	10.0 DCPD (10.0 DCPD)	50/50 (50/50)
67 (FF)	9.5 ENB (7.7 ENB)	46/54 (46/54)
77	10.5 ENB	74/26
CP-80 (FF)	— (—)	41/59 (41/59)
CP-600	—	41/59
CP-1100 (FF)	— (—)	41/59 (43/57)
CP-2000	—	41/59

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