LION ELASTOMERS

Royalene® EPDM
Trilene® Liquid EPDM

Royalene® EPDM | RoyalEdge® EPDM | Royaltherm® EPDM
Trilene® Liquid EPDM

Royalene® 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.

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® EPDM 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
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)	2.3 ENB	68/32
645[b]	48 (125°C)	8.5 ENB	66/34
669	120 (150°C)	5.5 ENB	62/38
674[b]	53 (125°C)	4.5 ENB	63/37
677[a]	50 (125°C)	4.5 ENB	70/30
694[b]	48 (125°C)	4.5 ENB	70/30

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

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

RoyalEdge® EPDM

RoyalEdge® EPDM is a low to medium voltage grade designed for wire and cable. RoyalEdge® EPDM provides excellent insulations resistance, chemical purity, wet electricals and heat aging. RoyalEdge® 5040 and 5041 are widely used in MV105, XHHW-2, SIS constructions and more. RoyalEdge® EPDM has superior extrusion performance with low scorch and high throughput.

RoyalEdge® EPDM	Mooney ML 1+4	Wt. % Diene	E/P Ratio
5040	30 (125°C)	2.8 DCPD	75/25
5041	25 (125°C)	2.8 DCPD	75/25

Royaltherm® EPDM

Royaltherm® silicone-modified EPDM is ideally suited for high temperature applications. Compared to normal EPDM, Royaltherm® EPDM 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	27 - 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® Liquid EPDM 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® Liquid EPDM 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® Liquid EPDM	Wt. % Diene	E/P Ratio
65 (FF)	10.0 DCPD (10.0 DCPD)	50/50 (50/50)
65D	10.0 DCPD	50/50
67 (FF)	9.5 ENB (9.5 ENB)	46/54 (46/54)
77	10.5 ENB	74/26
CP-80 (FF)	– (–)	41/59 (41/59)
CP-600	–	43/57
CP-1100 (FF)	– (–)	43/57 (43/57)
CP-2000	–	43/57

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