

Aquathene

Moisture Curable Power Formulations for UL Applications

Material Application

Material formulations and cable designs for the power industry must meet a wide variety of UL requirements to be approved for many of today's demanding applications. LyondellBasell offers polyolefin components for moisture crosslinkable material formulations that may assist a wire and cable producer in achieving these stringent requirements. Wire and cable producers, however, should conduct their own testing in order to make their own independent determination that any LyondellBasell polyolefin components are suitable and safe for their intended use and applications.

**Subject UL44/
UL854 Types**

Compound Designation	Footnote Superscript	Color	Type XHHW	Type XHH	Type XHHW-2	Type RHH	Type RHW	Type RHW2	Type SIS	Type USE	Type USE-2
Aquathene U8659 BK	j	Black								•	•
Aquathene U6430 AC		All	•	•	•	•	•	•	•	•	•
Aquathene U6432 AC	h	All	•	•	•	•	•	•	•	•	•
Aquathene U5832 AC	j	Black	•	•	•	•	•	•	•	•	•
Aquathene U4945 AC	n	All	•	•	•	•	•	•	•	•	•
Aquathene U4947 AC	h,n	All	•	•	•	•	•	•	•	•	•
Aquathene U4425 BK		Black	•	•	•	•	•	•	•	•	•
Aquathene U4427 AC	h	All	•	•	•	•	•	•	•	•	•

Footnotes

a	VW-1	j	Sunlight Resistance in Black Only
b	VW-1 for XHH, XHHW, XHHW-2, SIS only	k	Meets STI requirements in all sizes
c	Oil Resistance I	l	Cable Tray use on 4 AWG and larger (4/1 AWG sizes are for grounding conductors only)
d	Oil Resistance II	m	Complies with XL insulation requirements of Table 11, UL 44
e	Gasoline and Oil Resistance	n	Cable Tray Use on 4 AWG and Larger (tested on 6 AWG)
f	Cable Tray Use on 1/0 AWG and larger	o	Acceptable for use on cables marked "-40°C"
g	Complies with Paragraph 30.4 of Std for Service Entrance Cable, UL854	p	Acceptable for use on 1/0 AWG and larger marked "FT4"
h	Sunlight Resistance	q	Acceptable for use on 1/0 AWG and larger marked "IEEE 1202"

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UL44/UL854
Bulletinized
Formulations
and Physical
Properties

Compound Designation	Aquathene AQ120000	Petrothene FR4098	Petrothene LM600700	Petrothene CM04482/CM04483	Petrothene CM92949B/PM92949C	Color Concentrate	50WT186 UV MB	MI (g/10 min.)	Density (g/cc)	Tensile @ Break (psi)	% Elongation
Aquathene U8659 BK	88.70%	0	0	5%	6.30%	0	0	1.7	0.936	2200	325
Aquathene U6430 AC	64%	30%	0	5%	0	1%	0	1.3	1.085	2050	250
Aquathene U6432 AC	61.50%	30%	0	5%	0	1%	2.50%	1.3	1.11	2750	275
Aquathene U5832 AC	58.7%	30%	0	5%	6.30%	0	0	1.4	1.1	2600	275
Aquathene U4945 AC	49%	45%	0	5%	0	1%	0	1.2	1.15		
Aquathene U4947 AC	46.50%	45%	0	5%	0	1%	2.50%	1.2	1.19		
Aquathene U4425 AC	45.30%	25%	25%	3.7% CM04483	0	1%	0	1.2	1.08	3350	350
Aquathene U4427 AC	42.80%	25%	25%	3.7% CM04483	0	1%	2.50%	1.2	1.09	3350	350

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