

Aquathene

# Power Cable Formulations for CSA Applications

Material Application

Material formulations and cable designs for the power industry must meet a wide variety of CSA requirements to be approved for many of today's demanding applications. LyondellBasell offers polyolefin components for moisture crosslinkable and thermoplastic 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.

CSA Formulations

Compound Designation	TP or XL	Color	Type RW90	Type RWU90	Type USE175	Aquathene™ AQ120000	Petrothene™ LMK007100	Petrothene™ GA800091	Petrothene™ GA800093	Petrothene™ CM04483	Petrothene™ CM92949B/P M92949C	Color Concentrate	Petrothene™ PR92735	Petrothene™ PM92973	Melt Index (g/10 min.)	Density (g/cc)	Tensile @ Break (MPa)	% Elongation
Aquathene 4659	XL	Black	•	•		48.70%	40.00%			5.00%	6.30%				1.4	0.951	21.7	350
Aquathene 4659	XL	All	•	•		54.00%	40.00%			5.00%		1.00%			1.3	0.943	25	350
Aquathene 5055	XL	Black	•			51.25%				5.00%	3.75%		40.00%		1.3	0.933	19.1	400
Aquathene 8659	XL	Black	•	•		88.70%				5.00%	6.30%				1.7	0.936	19.3	300
Aquathene 8659	XL	All	•	•		94.00%				5.00%		1.00%			1.7	0.928		
Aquathene 5445	XL	Black	•	•		48.70%	40.00%			5.00%	6.30%				1.35	0.934		
Aquathene 5445	XL	All	•	•		54.00%	40.00%			5.00%		1.00%			1.25	0.926	22	400
Aquathene 9505	XL	Natural	•	•		95.00%				5.00%					1.7	0.922		
Petrothene PR92735	TP	Black			•								100.00%		0.7	0.93	21	775
Petrothene 9307	TP	Black			•			93.50%					6.50%		0.7	934		

1. All Type RW90 and RWU90 are XLPE, -40°C
2. Aquathene 4659, 5055, 8659, and 5445 containing a minimum of 2.5% carbon black are suitable for type RW90, RWU90 XLPE Outdoor.

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