

POE Case Study– Waterproof Membrane

POE can be used to improve softness of PP based waterproof sheet.
We can replace EOR EG8150 to LG EBR LC175, maintaining balance between softness and tear strength.



• Key Property

- Balance between Softness(Hardness) and Tear Strength

		Competitor	LG	
		EG8150	LC175	LC175
PP	%	70	70	80
POE	%	30	30	20
Tensile Strength	kgf/cm ²	169	162	215
Elongation	%	127	127	140
Tear strength	N/mm	125	114	147
Hardness	(Shore D)	58.6	57.6	62.1

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- Product: Waterproofing Polymeric Membrane
- Applications: Road, Tunnel, Rail Transit, Civil building
- Grade: LC175
- Competitors: Exxon Vistamaxx 6102
- CTQ : Tensile strength, elongation at break, low hardness

	LC175	6102	SPEC
Tensile strength	17-18 Mpa	18-19 Mpa	17 MPa
Elongation	700%	600%	600%

- Exxon 6102 disadvantage:
 1. Low elongation
 2. Flexibility
- Exxon 6102 advantage:
 1. High tensile strength
 2. Price policy

