



# Lotrène® Q K307

This medium density, high molecular weight, hexene copolymer is tailored for geomembrane applications that require:

- Outstanding ESCR
- Broad fusion range
- Excellent melt strength
- Good processability

This resin meets these specifications:

- ASTM D4976 – PE225
- GRI-GM13 except carbon black requirements
- FDA 21 CFR 177.1520(c) 3.1a, use conditions C through G per 21 CFR 176.170(c). Volume of food contacting article must be equal to or greater than 5 gallons.

Typical applications include:

- Landfill liners
- Gasoline and chemical tank containment liners
- Tunnel moisture barriers
- Mine tailing collection projects

Nominal Physical Properties *	ASTM	Unit	Value
Density	D792	g/cm <sup>3</sup>	0.937
Melt Index, Condition 190 C°/ 21.6 kgs	D1238	g/10min	21.0
ESCR, Condition C (100% Igepal) F <sub>50</sub>	D1693	h	>1500
ESCR, Condition B, (10% Igepal) F <sub>50</sub>	D1693	h	>1500
Tensile Yield Strength, 50 mm/ min	D638 Type IV	MPa	20
Elongation at Break, 50 mm/ min	D638 Type IV	%	>800
Flexural Modulus, Tangent	D790	MPa	830
SP-NCTL	D5397	h	>900
Brittleness Temperature	D746	°C	<-75

\* The nominal properties reported herein are typical of the product, but do not reflect normal testing variance and therefore should not be used for specification purposes. Values are rounded. The physical properties were determined on compression molded specimens that were prepared in accordance with Procedure C of ASTM D4703, Annex A1.

Before using this product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user's specific application. Qatar Chemical Company Ltd does not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, or allegedly arising from any usage of any trade or from any course of dealing in connection with the use of the information contained herein or the product itself. The user expressly assumes all risk and liability, whether based in contract, tort or otherwise, in connection with the use of the information contained herein or the product itself. Further, information contained herein is given without reference to any intellectual property issues, as well as any international laws which may be encountered in the use thereof. Such questions should be investigated by the user.

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