

LOTRÈNE® Q 50100

HIGH DENSITY POLYETHYLENE RESIN

DESCRIPTION AND USE

This extra high molecular weight hexene copolymer is tailored for large blow molded and thermoformed parts that require:

- Good melt strength
- Good rigidity
- Excellent ESCR
- Excellent low temperature impact strength

TECHNICAL PROPERTIES

NOMINAL PHYSICAL PROPERTIES	VALUE	UNIT	ASTM
Density	0.948	g/cm ³	ASTM D1505
Melt Index, Condition 190°C/2.16 kg	0.06	g/10 min	ASTM D1238
HLMI, Condition 190°C/21.6 kg	10	g/10 min	ASTM D1238
ESCR, Condition A, F50 (100% Igepal)	>600	h	ASTM D1693
ESCR, Condition B, F50 (100% Igepal)	>600	h	ASTM D1693
Tensile Yield Strength, 50 mm/min	26	MPa	ASTM D638 Type IV
Elongation at Break, 50 mm/min	>600	%	ASTM D638 Type IV
Brittleness Temperature	< -75	°C	ASTM D746
Flexural Modulus, Tangent	1170	MPa	ASTM D790
Shore D Hardness	68	—	ASTM D2240

TYPICAL APPLICATIONS / SPECIFICATIONS

- 220L shipping containers
- Gasoline tanks
- Agricultural chemical tanks
- Pallets
- Automotive dunnage
- Truck bedliners and boats

This resin meets these specifications:

- ASTM D4976 – PE 235
- FDA Regulations 21 CFR 177.1520. Suits for food packaging.

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TECHNICAL DISCLAIMER

The values reported in this technical data sheet are the results of tests carried out in accordance with standard test procedures in a laboratory environment. Actual properties may vary depending on batch and extrusion conditions. Therefore, these values should not be used for specification purposes.

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 suitable for, and the information is applicable to the user's specific application. Muntajat does not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, expressed 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 risks and liabilities, whether based in contract, tort or otherwise, in connection with the use of the information contained herein or the product itself. Trademarks may not be used in any manner other than expressly authorized in a written agreement and no trademark or license rights of any kind are granted hereunder, by implication or otherwise.