Alkatuff®
Polyethylene

Grade	Major End Use
LL711UV	ROTATIONAL MOULDING

Description

Alkatuff LL711UV is a hexene LLDPE material specifically designed for rotational moulding applications that require excellent ESCR, chemical resistance, stiffness and toughness. Alkatuff LL711UV is UV stabilised to provide prolonged outdoor protection in Australian conditions

Application

Alkatuff LL711UV is designed for chemical and water tanks and other applications where toughness, stiffness and UV protection is important.

Specifications

Alkatuff LL711UV complies with the base resin requirements of AS/NZS 4766 Polyethylene storage tanks for water and chemicals.
If this product is used for food contact applications, then the user needs to ensure compliance with the requirements of AS2070-1999 and relevant FDA regulations.

When used in accordance with FDA application guidelines, this product meets the requirements of FDA 21 CFR 177.1520 (c) 3.1a and AS2070-1999 section 4.1.1(a). This product contains UV light stabilisers and so end use restrictions as described in FDA 21 CFR 176.170 (c) table 2 conditions D to G apply. Volume and food type restrictions may apply. This product should not be used in applications for holding food during cooking without the required compliance testing. This information is only for the Major End Use described on this Product Data sheet. For further information, please contact your primary Qenos contact

Safety

Material Safety Data Sheets are available for all Qenos polyethylene grades from Qenos

Certified System
Quality
ISO 9001
SAI GLOBAL

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Grade
LL711UV

Physical Properties			
Property	Test Method [1]	Value [2]	Units
Melt Index @190°C, 2.16kg	ASTM D1238	3.0	g/10 min
Density	ASTM D1505	0.938	g/cm^3
Melting Point	ASTM D3418	128	°C
Thermal Stability	AS/NZS 4766	Pass	-
Tensile Strength at Yield	ASTM D638 [3]	19.5	MPa
Flexural Modulus (1% Secant) [3]	ASTM D790	800	MPa
ESCR F_{50} (Condition A, 100% Igepal)	ASTM D1693	>1000	hrs
Contact with Drinking Water	AS/NZS 4020	Pass	-
Hydrostatic Design Basis	ASTM D2837	8.62 [4]	MPa
UV Resistance [5]	AS/NZS 4766	UV24 [5]	-

1. Test procedures may be modified to accommodate operating conditions or facility limitations.
2. Typical values - not to be construed as specifications.
3. At 50mm/min crosshead speed
4. A service factor must be applied in accordance with AS/NZS 4766.
5. Samples of injection moulded non-pigmented LL711UV retained more than 50% tensile elongation after 24,000 hours of accelerated weathering in Qenos's Xenon-Arc weatherometer. Qenos is accredited by NATA to perform accelerated weathering in accordance with ASTM D2565. UV performance determined via artificial weathering does not translate into a specific outdoor UV lifespan. Many factors can influence the overall UV performance of rotomoulded articles.

For up to date information, refer to www.qenos.com

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Refer to web site for latest version.