

ExxonMobil® LL 6101RQ

Product Description: LL 6101 series are medium flow LLDPE grades, which offer excellent stiffness, heat distortion resistance and good environmental stress crack resistance. The excellent toughness and ESCR make LL 6101 grades an excellent blend partner for HDPE, where it can enhance the ESCR of items like buckets and lids.

Availability: Africa & Middle East, Asia Pacific and Europe

Physical Properties	Metric	English	Comments
Density	0.924 g/cc	0.0334 lb/in ³	ExxonMobil method
ESCR 10% Igepal®	40 hour @Temperature 50.0 °C	40 hour @Temperature 122 °F	ASTM D1693B
Melt Flow	20 g/10 min @Load 2.16 kg, Temperature 190 °C	20 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	10.3 MPa	1500 psi	ASTM D638
Elongation at Break	100 %	100 %	ASTM D638
Elongation at Yield	20 %	20 %	ASTM D638
Flexural Modulus, 1% Secant	262 MPa	38000 psi	ASTM D790
Izod Impact, Notched (ISO)	46.2 kJ/m ²	22.0 ft-lb/in ²	ISO 180/1A

Thermal Properties	Metric	English	Comments
Melting Point	<= 123 °C	<= 253 °F	Peak Melting Point; ExxonMobil method