

Lupolen 5031 LBasell Polyolefins - *Polyethylene, High Density*

Unit System:

Actions

Legend ([Open](#))**General Information****General**

Material Status	. Commercial: Active
Availability	. Africa . Latin . Asia America . Australia Middle East . Europe Pacific Rim
Test Standards Available	. ASTM . ISO
Uses	. Seals
Forms	. Pellets
Processing Method	. Injection Molding

ASTM and ISO Properties ¹

Physical	Nominal Value Unit	Test Method
Density	0.952 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.5 g/10 min	ISO 1133
Enviro. Stress Crack Res	5.00 hr	ASTM D1693
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus (73 °F)	145000 psi	ISO 527-1, -2
Tensile Stress at Yield (73 °F)	3770 psi	ISO 527-1, -2
Hardness	Nominal Value Unit	Test Method
Ball Indentation Hardness	H 132/30: 6820 psi	ISO 2039-1
Thermal	Nominal Value Unit	Test Method
Melting Temperature (DSC)	268 °F	ISO 3146

Additional Properties

Vicat Softening, ISO 306, Rate A: 125°C

Notes¹ Typical properties: these are not to be construed as specifications.