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WeConnectScience

LG Chem

LF575

Description

LUCENE™ LF575 is an ethylene-1-butene copolymer produced using LG Chem's metallocene polymerization catalyst and solution process technology.
LUCENE™ LF575 provides outstanding mechanical property for the manufacture of lamination and packaging film and excellent performance for compounded products.

Application

EBR(Ethylene-1-Butene copolymer) General purpose thermoplastic elastomer for polymer modification Packaging Film, Photovoltaic encapsulant, Automotive interior/exterior and Shoe sol

Properties	Method	Condition	Unit	LF575
Physical				
MFI	ASTM D1238	190℃, 2.16kg load	g/10min	5
Density	ASTM D1505	Density-Gradient	g/cm³	0.877
Mechanical				
Tensile Strength at break point	ASTM D638	500㎜/min	MPa	7
Elongation at break point	ASTM D638	500㎜/min	%	>1000
Tear Strength	ASTM D624	Type C	kN/m	45
Flexural Modulus(MPa)	ASTM D790	Press sheet, 1% Secant	MPa	15
Hardeness(Shore A)	ASTM D2240	Shore A		73
Hardeness(Shore D)	ASTM D2240	Shore D		21
Thermal				
Melting Temperature	LG Method	by DSC	℃	62
Crystallization Temperature	LG Method	by DSC	℃	46
Glass Tansition Temperature	LG Method	by DSC	℃	-49

Note

The properties data in this table are typical values, and not guaranteed specification.
Typical resin property values are measured on a standard compression molded specimens.

Storage and handling Recommendations

The proper storage and handling of these product is extremely important for the products to remain flowable for transport and processing without pellet blocking.
To prevent pellet blocking
- To minimize static load, do not double stack pallets.
- Keeping storage and handling temperature between 15~25℃.
- Storage the resins in the warehouse to protect from exposure to elevated temperature which is not to exceed 35 ℃.
- Consume the resins on a first in, first out basis.