

- Low Density Polyethylene

Thursday, June 29, 2017

General Information

General

Material Status	• Commercial: Active
Availability	• Asia Pacific
Features	• Conductive
Uses	• Film
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Film Extrusion

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.00		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	1.0 to 5.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	1160	psi	ASTM D638
Tensile Elongation (Break)	100	%	ASTM D638
Flexural Modulus	26100	psi	ASTM D790
Flexural Strength	1160	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	4.7	ft-lb/in	ASTM D256
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+5	ohms	ASTM D257
Volume Resistivity	< 1.0E+5	ohms-cm	ASTM D257

Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	2.0 to 4.0	hr
Cylinder Zone 1 Temp.	248	°F
Cylinder Zone 2 Temp.	284	°F
Cylinder Zone 3 Temp.	302	°F
Cylinder Zone 4 Temp.	302	°F
Cylinder Zone 5 Temp.	302	°F

Notes

¹ Typical properties: these are not to be construed as specifications.

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