

Resinol LDPE Type A

Low Density Polyethylene

Spartech Plastics

Message:

Resinol LDPE Type A is a low density polyethylene product. It is available in North America. Typical application areas are: packaging.

General Information			
Features	General		
Uses	Packaging		
Appearance	Natural color		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.915	g/cm ³	ASTM D792
Environmental Stress-Cracking Resistance	1000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	44		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	55.2	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	9.65	MPa	ASTM D638
--	10.0	MPa	ASTM D638
Tensile Elongation (Yield)	150	%	ASTM D638
Compressive Strength	1.93	MPa	ASTM D695
Deformation Under Load (50°C, 14 MPa)	0.620	%	ASTM D621
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	850	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	43.3	°C	ASTM D648
Brittleness Temperature	-118	°C	ASTM D746
Vicat Softening Temperature	85.0	°C	ASTM D1525
CLTE - Flow	1.8E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	6.0E+15	ohms · cm	ASTM D257
Dielectric Strength (3.18 mm)	20	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
100 kHz	2.28		ASTM D150
1 MHz	2.28		ASTM D150
Dissipation Factor			ASTM D150
100 kHz	1.0E-4		ASTM D150

Additional Information

Density, ASTM D1505: 0.91 to 0.925g/ccTensile Strength, ASTM 638, 20in/min: 1400 to 2200psiTensile Strength, ASTM 638, 2in/min: 1000 to 1900psiNotched Izod Impact Strength, ASTM D256: > 16ft-lb/inBrittleness Temperature, ASTM D746: < -180°F (-118°C)Hardness, Shore D: 44-48Modulus of Elasticity, ASTM D638: 8000 to 25000 psiCompressive Stress, ASTM D695: 280 to 600 psiDissipation Factor, ASTM D1513, 100000: < 0.0001Dissipation Factor, ASTM D1513, 1000000: < 0.0001

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Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

