

Resinol HDPE Type F

High Density Polyethylene

Spartech Plastics

Message:

Resinol HDPE Type F is a high density polyethylene product. It can be processed by extrusion and is available in North America. Resinol HDPE Type F applications include containers, consumer goods and food contact applications.

Features include:

- Hard
- Heat resistance

General Information			
Features	Rigidity, high		
	Thermal stability, good		
Uses	Tools/Parts Box		
	Food service sector		
	Toys		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.948	g/cm ³	ASTM D792
--	0.953	g/cm ³	ASTM D1505
Environmental Stress-Cracking Resistance	1000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	414	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	17.9	MPa	ASTM D638
-- ¹	28.3	MPa	ASTM D638
Tensile Elongation ² (Yield)	360	%	ASTM D638
Compressive Strength	23.4	MPa	ASTM D695
Deformation Under Load	14.5	%	ASTM D621
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	43	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	73.9	°C	ASTM D648
Brittleness Temperature	-118	°C	ASTM D746

Vicat Softening Temperature	120	°C	ASTM D1525
CLTE - Flow	2.3E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	6.0E+15	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
100 kHz	2.32		ASTM D150
1 MHz	2.32		ASTM D150
Dissipation Factor			ASTM D150
100 kHz	1.0E-4		ASTM D150
1 MHz	1.0E-4		ASTM D150

Additional Information

Density, ASTM D1505: 0.941 to 0.965g/ccTensile Strength, ASTM 638, 20in/min: 2600 to 4800psiTensile Strength, ASTM 638, 2in/min: 3500 to 4700psiNotched Izod Impact Strength, ASTM D256: .8 to 14 ft-lb/inBrittleness Temperature, ASTM D746: <-180°F (-118°C) to -100°F(-73°C)Hardness, Shore D: 55-70Modulus of Elasticity, ASTM D638: 60000 to 150000 psiCompressive Stress, ASTM D695: 3200 to 3600 psiDissipation Factor, ASTM D1513, 100000: < 0.0001Dissipation Factor, ASTM D1513, 1000000: 6E15 ohm-cm

NOTE

1. 51 mm/min
2. 510 mm/min

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