



## TTD 92

### Linear Low Density Polyethylene

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#### Applications

**TTD 92** is a broad molecular weight, linear low-density polyethylene resin designed for use as a base resin in wire and cable jacketing. An antioxidant package has been added to ensure thermal stability during processing.

Physical Properties	Nominal Value	Units	Method
Density	0.920	g/cm <sup>3</sup>	D 1505
Melt Index	0.70	g/10 min.	D 1238
Tensile Strength @ Break	2,200 (15.2)	psi (MPa)	D 638
Tensile Stress @ Yield	1,700 (12.0)	psi (MPa)	D 638
Elongation @ Break	650	%	D 638
Flexural Modulus, 1% Secant	50,000 (345)	psi (MPa)	D 790
Hardness, Shore D	57		D 2240
Dielectric Strength (0.125")	500	V/mil	D 149
Volume Resistivity	>10 <sup>15</sup>	ohm*cm	D257
Dielectric Constant @ 1 MHz	2.29		D 1531
Dissipation Factor @ 1 MHz	0.00006		D 1531
Environmental Stress Crack Resistance, 10% Igepal®	>1,000	hours	D 1693
Low Temperature Brittleness, F50	<-76	°C	D 2240

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#### Processing Techniques

**TTD 92**, like other thermoplastic polyolefin resins, can be extruded using a conventional extruder. Suggested extrusion conditions for **TTD 92** are listed below. These conditions are intended as general guidelines only and are not optimum values, since manufacturing conditions, such as extruder type and size have an effect on the processing of thermoplastic resins.

#### Suggested General Extrusion Conditions

Extruder Zone	Temperature Range
Feed	310° - 325°F (154° - 163°C)
Zone 2	350° - 380°F (177° - 193°C)
Zone 3	380° - 410°F (193° - 210°C)
Zone 4-X	400° - 425°F (204° - 218°C)
Adapter	400° - 425°F (204° - 218°C)
Die	400° - 425°F (204° - 218°C)

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