

Tufflite IV™ (TIV)

Scope

This specification covers Tufflite, the original “colorless” polyethylene greenhouse covering. For over 20 years growers have covered their income (crops) with Tufflite. Tufflite was the first multi-year product incorporating the **HALS Formula System** (Hindered Amine Light Stabilizer) of ultraviolet inhibitors. Tufflite brand products are produced by Berry Plastics, one of North America’s largest manufacturers of polyethylene products for agriculture, and are offered in gauges ranging from one to six mils and are fully warranted for up to four years.

Physical Property Characteristics		Value
Dart Impact (grams per mil) ASTM D1709		150
Resistance to puncture or tearing when impacted by an object		
Tear (grams per mil) ASTM D1922	(MD) (TD)	200 275
Resistance to continued tearing once a tear or hole has been initiated		
Tensile (psi) ASTM D882	(MD) (TD)	4000 3000
Resistance to tears or “running” when pulling film over a frame or stretching to engage locks		
Break Strength (lbs per mil) ASTM D882	(MD) (TD)	4.0 3.6
Elongation (psi) ASTM D882	(MD) (TD)	700 675
Yield Strength (psi)	(MD) (TD)	1650 1450

Optical Properties	Value
Light Transmission U.S. Testing Co.	91.8 %
Unobstructed Solar Radiation Transmitted	74.6 %
Photosynthetically Active Radiation (PAR)	88.1 %
Haze	24.5 %
Thermicity	43.1 %
Diffused Light	22.5 %
Clarity	79.6 %

