

## Advanced Elastomer Systems Trefsin® 3101-75 W305 Thermoplastic Rubber (discontinued \*\*)

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Elastomer, Melt-Processible Rubber

### Material Notes:

A black thermoplastic elastomer with excellent permeation resistance to water, air and other gases. It can be processed using injection molding, extrusion, blow molding or other melt processing techniques. Key Features: Permeability - Air permeation rate @ 23°C (73°F), (ASTM D 1434) 57 cm<sup>3</sup>.mm/m<sup>2</sup>.day.atm (Based on testing of 65A TREFSIN Rubber); TREFSIN rubber is also relatively impermeable to a wide variety of other fluids and gases, and exhibits good resistance to various chemicals, heat and weathering. Additional processing comments: This thermoplastic rubber is a shear-dependent material that can be processed on conventional thermoplastic equipment for injection molding, extrusion, or blow molding. For extrusion, a general purpose screw with a compression ratio of 2.5 to 3.0 is recommended. Material can be recycled. TREFSIN rubber is incompatible with acetal and PVC. Values below are for injection molded plaques, side gated, 82.6 mm x 117.5 mm x 3.0 mm. Tensile properties measured across flow. Data provided by Advanced Elastomer Systems. Advanced Elastomer Systems is now a part of ExxonMobil. This grade was removed from the Advanced Elastomers Systems standard product line before the ExxonMobil acquisition.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Advanced-Elastomer-Systems-Trefsin-3101-75-W305-Thermoplastic-Rubber-nbspdiscontinued.php](http://www.lookpolymers.com/polymer_Advanced-Elastomer-Systems-Trefsin-3101-75-W305-Thermoplastic-Rubber-nbspdiscontinued.php)

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in <sup>3</sup>	TPE-0105 (ASTM D792)
Oxygen Transmission	57.0 cc-mm/m <sup>2</sup> -24hr-atm	145 cc-mil/100 in <sup>2</sup> -24hr-atm	Air permeation rate @ 23°C (73°F), (ASTM D 1434)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	5 Second; TPE-0169 (ASTM D 2240)
Tensile Strength, Ultimate	6.90 MPa	1000 psi	TPE-0153 (ASTM D 412)
Elongation at Break	350 %	350 %	TPE-0153 (ASTM D 412)
100% Modulus	0.00360 GPa	0.522 ksi	TPE-0153 (ASTM D 412)
Graves Tear Strength	28.0 kN/m	160 pli	TPE-0056 (ASTM D 624)
Compression Set	29 %	29 %	23°C, 22 hrs.; TPE-0016 (ASTM D 412)
	54 %	54 %	22 hrs.; TPE-0016 (ASTM D 412)
	@Temperature 100 °C	@Temperature 212 °F	
Tensile Set	20 %	20 %	23°C, 22 hrs.; per TPE-0053 (ASTM D 412)

Processing Properties	Metric	English	Comments
Processing Temperature	180 - 225 °C	356 - 437 °F	
Drying Temperature	82.0 °C	180 °F	Desiccant drying for 3 hours recommended
Dry Time	3 hour	3 hour	

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