Advanced Elastomer Systems Trefsin® 3101-65 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 - Typical Values - Air permeation rate @ 23°C (73°F), (ASTM D 1434) 57 cm3.mm/m2.day.atm; Oxygen transmission rate @ 23°C (73°F) and 50 to 75% relative humidity (ASTM D 1434) 64 cm3.mm/m2.day.atm; Water vapor transmission rate @ 37.8°C (100°F) and 90% relative humidity (ASTM F 1249) 0.57 g.mm/m2.day; 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 acquisiton.

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http://www.lookpolymers.com/polymer_Advanced-Elastomer-Systems-Trefsin-3101-65-W305-Thermoplastic-Rubber-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in³	TPE-0105 (ASTM D792)
Moisture Vapor Transmission	0.570 cc-mm/m²-24hr-atm	1.45 cc-mil/100 in²-24hr-atm	g.mm/m2.day; 37.8°C (100°F) and 90% relative humidity (ASTM F 1249)
Oxygen Transmission	64.0 cc-mm/m²-24hr-atm	163 cc-mil/100 in²-24hr-atm	23°C, 50-75% Humidity; ASM D 1434

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	65	65	5 Second; TPE-0169 (ASTM D 2240)
Tensile Strength, Ultimate	5.80 MPa	841 psi	TPE-0153 (ASTM D 412)
Elongation at Break	310 %	310 %	TPE-0153 (ASTM D 412)
100% Modulus	0.00300 GPa	0.435 ksi	TPE-0153 (ASTM D 412)
Graves Tear Strength	25.0 kN/m	143 pli	TPE-0056 (ASTM D 624)
Compression Set	21 %	21 %	23°C, 22 hrs.; TPE-0016 (ASTM D 412)
	44 % @Temperature 100 °C	44 % @Temperature 212 °F	22 hrs.; TPE-0016 (ASTM D 412)

Mechanical Properties	Metric	English	Comments
Tensile Set	12 %	12 %	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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