

Advanced Elastomer Systems Trefsin® 3201-65 W305 Thermoplastic Rubber (discontinued **)

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

Material Notes:

A natural 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 acquisition.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Advanced-Elastomer-Systems-Trefsin-3201-65-W305-Thermoplastic-Rubber-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	TPE-0105 (ASTM D792)
Moisture Vapor Transmission	0.570 cc-mm/m ² -24hr-atm	1.45 cc-mil/100 in ² -24hr-atm	g.mm/m ² .day; 37.8°C (100°F) and 90% relative humidity (ASTM F 1249)
Oxygen Transmission	64.0 cc-mm/m ² -24hr-atm	163 cc-mil/100 in ² -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 %	44 %	22 hrs.; TPE-0016 (ASTM D 412)
	@Temperature 100 °C	@Temperature 212 °F	

Mechanical Properties	Metric	English	Comments
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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