

**ExxonMobil Vyram™ 9271-85 Thermoplastic Rubber (discontinued \*\*)**

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

**Material Notes:**

A colorable thermoplastic elastomer which complies with FDA regulations for rubber articles intended for repeated use, as well as rubber articles in contact with non-fatty, non-oily foods as closures and sealing gaskets. It can be processed using injection molding, extrusion, blow molding or other melt processing techniques. Key Features: Excellent flex fatigue resistance; Excellent ozone resistance; May be used in contact with non-fatty foods as closure sealing gaskets in accordance with provisions of 21 CFR 177.1210 under the Federal Food, Drug and Cosmetic Act; Complies with 21 CFR 177.2600 "Rubber Articles Intended for Repeated Use" 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. VYRAM 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.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-Vyram-9271-85-Thermoplastic-Rubber-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_ExxonMobil-Vyram-9271-85-Thermoplastic-Rubber-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	0.970 g/cc	0.0350 lb/in <sup>3</sup>	TPE-0105 (ASTM D792)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	5 Second; TPE-0169 (ASTM D 2240)
Tensile Strength, Ultimate	8.90 MPa	1290 psi	TPE-0153 (ASTM D 412)
Elongation at Break	710 %	710 %	TPE-0153 (ASTM D 412)
100% Modulus	0.00560 GPa	0.812 ksi	TPE-0153 (ASTM D 412)
Graves Tear Strength	55.0 kN/m	314 pli	TPE-0056 (ASTM D 624)
Compression Set	38 % @Temperature 70.0 °C	38 % @Temperature 158 °F	168 hrs.; TPE-0016 (ASTM D 412)

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -60.0 °C	<= -76.0 °F	TPE-0089 (ASTM D 746)

Processing Properties	Metric	English	Comments
Processing Temperature	177 - 232 °C	351 - 450 °F	
Drying Temperature	82.0 °C	180 °F	Desiccant drying for 3 hours recommended
Dry Time	3 hour	3 hour	

Processing Properties	Metric	English	Comments
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