

ExxonMobil Santoprene® 8271-55B100 Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Vulcanizate Elastomer (TPV)

Material Notes:

A soft, colorable, specialty, non-hygroscopic thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. It is especially formulated to bond to ABS, PS, PC, PMMA, ASA, PET and PPO/PS blends for applications where hard/soft combinations are required. The raw materials of this grade are listed in FDA regulations 21 CFR 177.1210 (Closures with sealing gaskets for food containers) and 21 CFR 177.2600 (Rubber articles intended for repeated use), or are considered as generally recognized as safe (GRAS). Also, this grade has passed the end use extraction testing required in these specific regulations for aqueous-based foods only, and it complies with the good manufacturing practices required in 21 CFR 110. This grade of Santoprene 8000 TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding or extrusion. It is polyolefin based and completely recyclable. Designed for excellent adhesion onto ABS, PS, PC, PMMA and ASA (cold insert or 2K [two-shot] molding). Recommended for applications requiring superior part surface appearance. Designed for soft touch applications. Information provided by Advanced Elastomer Systems

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Santoprene-8271-55B100-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	23°C; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	49	49	Air at 212°F, 168 hr; ASTM D573
	61	61	Air at 257°F, 168 hr; ASTM D573
	53	53	ISO 868
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Tensile Strength at Break	1.586 MPa	230.1 psi	Air at 257°F, 168 hr; ASTM D573
	2.929 MPa	424.8 psi	Air at 212°F, 168 hr; ASTM D573
	4.07 MPa	590 psi	Across Flow; ASTM D412
Tensile Strength, Ultimate	1.03 MPa	150 psi	Across Flow; ASTM D412
Elongation at Break	180 %	180 %	Air at 257°F, 168 hr; ASTM D573
	516 %	516 %	Air at 212°F, 168 hr; ASTM D573
	600 %	600 %	Across Flow; ASTM D412
Compression Set	55 %	55 %	257°F, 70 hr; ASTM D395

Processing Properties	Metric	English	Comments
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Melt Temperature Processing Properties	98.9 - 110 °C Metric	210 - 230 °F English	For two-shot injection molding Comments
	110 - 121 °C	230 - 250 °F	For insertion injection molding
Mold Temperature	25.0 - 50.0 °C	77.0 - 122 °F	

Descriptive Properties	Value	Comments
Color	Natural Color	
Form	Pellets	

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