

ISO 1043

SANTOPRENE® 121-50M100

SANTOPRENE®

A soft, black, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material combines good physical properties and chemical resistance for use in difficult injection molding applications. This grade of Santoprene® TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding. It is polyolefin based and recyclable within the manufacturing stream.

Key Features

- Designed for fast, easy injection molding, especially for complex part geometries
- Used in sealing applications
- Recommended for applications requiring improved part surface appearance
- Designed to be injected at lower molding temperatures or at lower injection pressures
- UL listed: file #QMFZ2.E80017, Plastics Component; file #QMFZ8.E80017, Plastics Certified For Canada -Component

TPV

Product information

Resin Identification

>TPV<		ISO 11469
4.39 465	MPa %	ISO 37 ISO 527-1/-2 or ISO 37 ISO 527-1/-2 or ISO 37
56		ASTM D 746 ISO 48-4 / ISO 868
42	%	ISO 815 ISO 815 ISO 34-1
		IEC 60695-11-10 IEC 60695-11-10 UL 94
915	kg/m³	ISO 1183
3 ≤0.08 20 215 165 265 50 20	h % % °C °C °C	
	1.8 4.39 465 -60 56 31 42 15 HB 1.1 yes 915 82 3 ≤0.08 20 215 165 265 50 20	1.8 MPa 4.39 MPa 465 % -60 °C 56 31 % 42 % 15 kN/m HB class 1.1 mm

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Back pressure 0.517 MPa Ejection temperature 94 °C

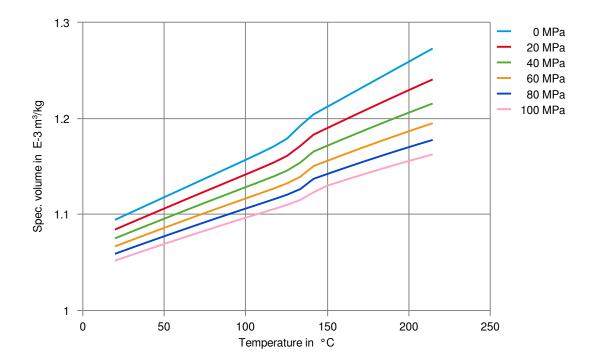
Additional information

Processing Notes

Processing Notes

Desiccant drying for 3 hours at 80 °C (180 °F) is recommended. Santoprene® TPV has a wide temperature processing window from 175 to 230 °C (350 to 450 °F) and is incompatible with acetal and PVC.

Specific volume-temperature (pvT)



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