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SANTOPRENE® 121-55W241

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

- · Used in glass encapsulation applications
- Used in sealing applications
- Recommended for applications requiring superior part surface appearance
- Designed to be injected at lower molding temperatures or at lower injection pressures

Product information

Resin Identification	>TPV >TPV<		ISO 1043 ISO 11469
Part Marking Code			
Typical mechanical properties			
Tensile stress at 100% elongation, perpendicular	2	MPa	ISO 527-1/-2 or ISO 37
Stress at break, perpendicular	4.8	MPa	ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular	480	%	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	59		ISO 48-4 / ISO 868
Compression set, 23°C	29	%	ISO 815
Time	70	h	
Compression set, 125°C, 70h	56	%	ISO 815
Physical/Other properties			

TOV /

Physical/Other properties

Density 920 kg/m³ ISO 1183

Additional information

Processing Notes

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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.

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