

SANTOPRENE[®] 121-75M200

SANTOPRENE®

A soft, black, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is specially formulated with high flow properties and excellent aesthetics for use in injection molded parts such as automotive glass encapsulation. 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
- Designed to be injected at lower molding temperatures or at lower injection pressures
- Designed with higher gloss to allow for a wider range of gloss tailoring via mold surface
- Recommended for applications requiring superior part surface appearance with minimal to no flow defects or tiger stripes

Product information

i roddol information			
Resin Identification	TPV		ISO 1043
Part Marking Code	>TPV<		ISO 11469
Typical mechanical properties			
Tensile stress at 100% elongation, perpendicular	3.14	MPa	ISO 37
Stress at break, perpendicular	5.77	MPa	ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular	423	%	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	76		ISO 48-4 / ISO 868
Compression set, 70°C, 24h	36	%	ISO 815
Compression set, 125°C, 70h	64	%	ISO 815
Tear strength, normal	23	kN/m	ISO 34-1
Physical/Other properties			
Density	950	kg/m³	ISO 1183
Injection			
-			
Melt Temperature Optimum	215	-	
Min. melt temperature	165		
Max. melt temperature	265		
Mold Temperature Optimum		°C	
Min. mould temperature	20	°C	
Max. mould temperature	80	°C	
Ejection temperature	94	°C	

Additional information

Processing Notes

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

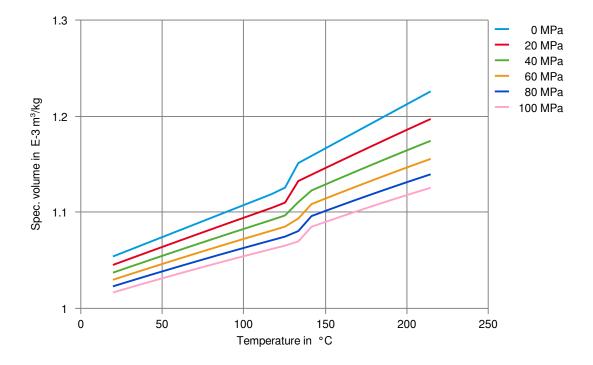
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Specific volume-temperature (pvT)



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