

Santoprene® 201-55

Thermoplastic Vulcanizate

Celanese Corporation

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

Santoprene® 201-55 is a Thermoplastic Vulcanizate (TPV) product. It can be processed by coextrusion, extrusion, injection molding, multi injection molding, or sheet extrusion and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Typical application: Automotive. Primary characteristic: flame rated.

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet		
UL Yellow Card ²	• E80017-250517		
Search for UL Yellow Card	• Celanese Corporation • Santoprene®		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Forms	• Pellets		
Processing Method	• Coextrusion • Extrusion	• Injection Molding • Multi Injection Molding	• Sheet Extrusion
Part Marking Code (ISO 11469)	• >TPV<		
Resin ID (ISO 1043)	• TPV		

Physical	Nominal Value Unit	Test Method
Density	0.970 g/cm ³	ISO 1183
Molding Shrinkage ⁴		ISO 294-4
Across Flow : 2.00 mm	0.90 %	
Flow : 2.00 mm	3.7 %	
Detergent Resistance	f4	UL 2157
Detergent Resistance	f3	UL 749

Elastomers	Nominal Value Unit	Test Method
Tensile Stress - Across Flow (100% Strain)	2.10 MPa	ISO 37
Tensile Stress - Across Flow (Break)	5.20 MPa	ISO 37
Tensile Elongation - Across Flow (Break)	400 %	ISO 37
Tear Strength - Across Flow	16.0 kN/m	ISO 34-1
Compression Set		ISO 815
70°C, 24 hr	22 %	
125°C, 70 hr	38 %	

Hardness	Nominal Value Unit	Test Method
Shore Hardness (Shore A, 15 sec)	59	ISO 48-4

Thermal	Nominal Value Unit	Test Method
Brittleness Temperature	-60.0 °C	ASTM D746 ISO 974
Maximum Continuous Use Temperature - 1000 hr	135 °C	SAE J2236

Electrical	Nominal Value Unit	Test Method
Arc Resistance	PLC 6	UL 746B
High Amp Arc Ignition (HAI) (1.5 mm)	PLC 0	UL 746A



Flammability	Nominal Value Unit	Test Method
Burning Rate ⁵ (2.00 mm)	30 mm/min	ISO 3795
Flame Rating		UL 94
1.0 mm	HB	IEC 60695-11-10, -20
1.5 mm	HB	

Injection	Nominal Value Unit
Suggested Max Regrind	20 %
Back Pressure	0.517 MPa

Extrusion	Nominal Value Unit
Drying Temperature	82 °C
Drying Time	3.0 hr
Melt Temperature	196 °C

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ min. 24 hours after molding, per test method TPE-X0080

⁵ FMVSS 302



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Where to Buy

Supplier

Celanese Corporation

Florence, Florence USA

Telephone: 800-833-4882

Web: <https://www.celanese.com/>

Distributor

Bamberger Amco Polymers

Telephone: 800-262-6685

Web: <https://bapolymers.com/>

Availability: North America

Biesterfeld Plastic GmbH

Biesterfeld is a Pan European distribution company. Contact Biesterfeld for availability of individual products by country.

Telephone: +49-40-32-00-80

Web: <https://www.biesterfeld.com/>

Availability: Africa & Middle East, Europe, South America

Channel Prime Alliance

Telephone: 800-247-8038

Web: <http://www.channelpa.com/>

Availability: North America

Entec Polymers

Telephone: 833-319-0299

Web: https://www.entecpolymers.com/?utm_source=ul&utm_medium=paid%20association&utm_campaign=entec%20%7C%20entec%201&utm_term=ul%20%7C%20where%20to%20buy

Availability: North America

Entec Polymers Latin America

Contact Entec Polymers for availability of individual products by country.

Web: <https://www.entecpolymers.com/>

Availability: Latin America

