

# Elastoskin® Lite 50555-05R Resin / S50555T

## Isocyanate

Polyurethane

BASF Corporation

### Message:

Mechanical Air Assist Spray applied Polyurethane Elastomer used on the outer surface of automotive interior trim applications.

General Information			
Uses	Application in Automobile Field		
	Car interior parts		
Physical	Nominal Value	Unit	Test Method
Density	0.760	g/cm <sup>3</sup>	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	63		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress <sup>1</sup>			ISO 527-2/500
--	7.46	MPa	ISO 527-2/500
-- <sup>2</sup>	5.90	MPa	ISO 527-2/500
-- <sup>3</sup>	8.80	MPa	ISO 527-2/500
Tensile Strain			ISO 527-2/1B/500
Fracture	210	%	ISO 527-2/1B/500
Fracture <sup>4</sup>	270	%	ISO 527-2/1B/500
Fracture <sup>5</sup>	300	%	ISO 527-2/1B/500
Thermal	Nominal Value		Test Method
Cold Resistance <sup>6</sup> (-40°C)	Pass		SAE J323
Fogging	> 99.0		SAE J1756
Flammability	Nominal Value	Unit	Test Method
Burning Rate	35	mm/min	Internal method
Additional Information			

Liquid Components:

Mix Ratio at 102 Index (by weight), Calculated: 100/53 (Resin/Isocyanate)

Specific Gravity, Resin at 65°C, ASTM D1638: 1.0304 g/cm<sup>3</sup>

Specific Gravity, Isocyanate at 65°C, ASTM D1638: 1.202 g/cm<sup>3</sup>

Viscosity, Resin at 25°C, ASTM D2196: 1060 cps

Viscosity, Isocyanate at 25°C, ASTM D2196: 700 cps

Viscosity, Resin at 45°C, ASTM D2196: 400 cps

Viscosity, Isocyanate at 45°C, ASTM D2196: 180 cps

Viscosity, Resin at 65°C, ASTM D2196: 190 cps

Viscosity, Isocyanate at 65°C, ASTM D2196: 50 cps

Reactivity Hand Mix:

Mix Ratio at 100 Index: 100/53 (Resin/Isocyanate)

Chemical Temperatures: 25°C

Mixer Speed: 3100 rpm

Shyodu Gel Time: 23 to 27 sec

NOTE

1.	Type 1B
2.	Heat Aged, 500 hrs @ 121°C
3.	Humid Aged, 168 hrs @ 80°C & 100% R.H.
4.	Heat Aged, 500 hrs @ 121°C
5.	Humid Aged, 168 hrs @ 80°C & 100% R.H.
6.	Method A

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