

# IROSTIC® S 6440

Thermoplastic Polyurethane Elastomer

Huntsman Corporation

## Message:

IROSTIC® is the Huntsman trade name for a range of polyurethane based raw materials for the manufacture of TPU adhesives.

IROSTIC® is globally available in a broad range of base polyol and isocyanate chemistries and can be used as a one or two-component system with IRODUR® cross-linkers.

IROSTIC® "Footwear Adhesives" features:

Very good heat resistance

Good adhesion to various substrates

Good green strength

May be used as one or two component adhesives

High tear resistance

Good hydrolysis resistance

Low temperature flexibility

High peel strength

IROSTIC® "Adhesives" applications:

Footwear

Laminating Adhesives

Do It Yourself

Textiles

Print industry

Bonding of woven / non-woven fabrics

Athletic shoes and sporting goods

Packaging materials

Aerospace and automotive assemblies

General Information			
Uses	Packaging		
	Bonding		
	Adhesive		
Physical	Nominal Value	Unit	Test Method
Viscosity-15% solid in MEK <sup>1</sup> (20°C)	0.400 - 1.60	Pa · s	
Crystallization Rate	12.0 - 16.0	min	Internal method
Flowability <sup>2</sup>	135 - 164	°C	ASTM 28
Processing Temperature	170 - 190	°C	
SAFT <sup>3</sup>	105 - 148	°C	Internal method
Activation temperature	40 - 45	°C	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness <sup>4</sup>			DIN 53505
Shaw A	87 - 91		DIN 53505
Shaw D	43 - 44		DIN 53505
Elastomers	Nominal Value	Unit	
Tensile Strength			
Yield	3.00 - 4.00	MPa	
Fracture	21.0 - 26.0	MPa	

Tensile Elongation (Break)	1500 - 1700	%	
Additional Information	Nominal Value	Unit	Test Method
Excellent adhesion to: paper PVC wood textile rubber leather			
NOTE			
1.	# viscosities available within grade: 4		
2.	@ average viscosity		
3.	cotton-cotton 0.5 kg load		
4.	@ average viscosity		

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#### Recommended distributors for this material

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