

## AuroraFlex™ Desiccant-MSD

Aurora Material Solutions, LLC - *Thermoplastic Vulcanizate*

### General Information

#### Product Description

Moisture scavenging concentrates for TPE/TPV compounds.

When combined with Olefinic TPV's, or TPE's that contain excessive moisture, these cost effective concentrates allow processing without the necessity of desiccant drying the compound or regrind.

Typical rates of addition are 2-7% via color concentrate feeders or by tumble blending batches prior to processing.

We have found property improvement when using these concentrates which are available for injection molding and extrusion applications.

Note: Additional custom color matching is available upon request.

#### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Uses	• Aerospace Applications • Agricultural Applications • Appliances • Automotive Applications • Capstock	• Consumer Applications • Electrical/Electronic Applications • Energy Storage • Film • Footwear	• Furniture • Medical/Healthcare Applications • Personal Care • Sheet
Appearance	• Colors Available		
Processing Method	• Extrusion	• Injection Molding	

### Properties <sup>1</sup>

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ASTM D638
-- 2	• 428 • 821	psi	
-- 3		421 psi	
-- 4		831 psi	
Tensile Strength			ASTM D638
-- 2	• 615 • 1870	psi	
-- 3		951 psi	
-- 4		2160 psi	
Tensile Elongation			ASTM D638
Break <sup>2</sup>	• 310 • 480	%	
Break <sup>3</sup>		450 %	
Break <sup>4</sup>		530 %	
Elastomers	Nominal Value	Unit	Test Method
Tear Strength			ASTM D624
-- 2		138 lbf/in	
-- 3		149 lbf/in	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A <sup>2</sup>	•	59	



	•	93	
Shore A <sup>3</sup>		62	
Shore A <sup>4</sup>		93	
<b>Aging</b>		<b>Nominal Value</b>	<b>Unit Test Method</b>
Change in Tensile Strength			
-- <sup>3</sup>		55 %	
-- <sup>4</sup>		16 %	ASTM D471
Change in Tensile Modulus	•	-1.7 %	
	•	1.2	
Change in Ultimate Elongation			
-- <sup>3</sup>		43 %	
-- <sup>4</sup>		10 %	ASTM D471
Change in Durometer Hardness <sup>3</sup>		5.1	
Change in Tear Strength <sup>3</sup>		7.9 %	

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> TPV

<sup>3</sup> TPV +5% MSCC-IM

<sup>4</sup> TPV +5% MSCC-E

