

ECO-FLEX™ SA-45A

Thermoplastic Vulcanizate, Rubber Based

SYNESIS LLC

Message:

ECO-FLEX™ SA-45A is a Thermoplastic Vulcanizate, Rubber Based (RTPV) product. It is available in North America. Applications of ECO-FLEX™ SA-45A include additive/masterbatch, automotive, consumer goods and sheet. Primary characteristic: eco-friendly/green.

General Information			
Recycled Content	Yes		
Uses	Automotive Applications		
	Blending		
	Consumer Applications		
	Sheet		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm ³	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 15 sec)	45		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (100% Strain)	1.00	MPa	ISO 37
Tensile Stress ² (Yield)	2.00	MPa	ISO 37
Tensile Elongation ³ (Break)	620	%	ISO 37
Tear Strength ⁴	14	kN/m	ISO 34-1
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (100°C, 1008 hr)	12	%	ISO 188
Change in Tensile Strain at Break in Air (100°C, 1008 hr)	-14	%	ISO 188
Change in Shore Hardness in Air (100°C, 1008 hr)	2.0		ISO 188
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-40.0	°C	ISO 812
Flammability	Nominal Value	Unit	Test Method
Burning Rate	49	mm/min	SAE J369
Additional Information	Nominal Value		Test Method
Ozone Resistance ⁵	Pass - No Cracking		ISO 1431-1
NOTE			
1.	Type 1, 50 mm/min		
2.	Type 1, 50 mm/min		
3.	Type 1, 50 mm/min		

4.	Method Bb, Angle (Nicked), 50 mm/min
5.	Procedure A, 20% Elongation, 51 MPa

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