

Silplus® 70 HS

Silicone Rubber, HTV

Momentive Performance Materials Inc.

Message:

Silplus 70 HS is a heat cured elastomer with very good mechanical and processing properties. Silplus 70 HS when properly compounded and catalyzed can be considered for use in a wide variety of applications such as extrusion, molding and calendaring.

Key Features and Benefits

excellent mechanical properties, in particular, high tear strength

compounding simplicity

good dielectric properties

enhanced heat resistance

versatile

Potential Applications

Because of its outstanding properties, Silplus 70 HS heat cured silicone is an excellent candidate to consider for use in most types of molding, extrusion and calendaring applications.

General Information			
Features	Heat vulcanization		
	Workability, good		
	Good tear strength		
Agency Ratings	FDA 21 CFR 177.2600		
	ISO 10993		
	USP Class VI		
Appearance	Translucent		
Processing Method	Extrusion		
	Calendering		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Mooney Viscosity (25°C)	50	MU	DIN 53523
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	70		DIN 53505
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	11.5	MPa	DIN 53504
Tensile Elongation (Break)	600	%	DIN 53504
Tear Strength ¹	45.0	kN/m	ASTM D624
Compression Set (175°C, 22 hr)	20	%	ISO 815
Thermoset	Nominal Value	Unit	Test Method
Post Cure Time (200°C)	4.0	hr	
Additional Information	Nominal Value	Unit	Test Method
Vulcanization (170°C)	10.0	min	

100 (pbw) Silplus 60 HS with 0.25 (pbw) like 2,5-Dimethyl-2,5-di(tert.butylperoxy)hexane (100%).

Uncured Properties	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	DIN 53479
NOTE			
1.	B mould		

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