

Momentive Performance Materials RTV566 Silicone Rubber Compound for Low Outgassing Applications

Category : Polymer , Adhesive , Thermoset , Silicone , Silicone, RTV, Adhesive/Sealant Grade

Material Notes:

RTV566 silicone rubber compound is a two-part product processed and tested for applications where low outgassing is required. RTV566A base compound is supplied ready to use with RTV566B curing agent. Mechanical properties for specimen cured 7 days at 25°C and 50% relative humidity. Key Performance Properties: Provides low outgassing characteristics in a high vacuum environment Room temperature cure Excellent release properties Excellent adhesion capability with primer Retains elastomeric properties from -115°C up to 260°C continuously and up to 316°C for short periods of time GE Silicones became a part of Momentive Performance Materials in 2006.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Momentive-Performance-Materials-RTV566-Silicone-Rubber-Compound-for-Low-Outgassing-Applications.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	RTV566B
	1.49 g/cc	1.49 g/cc	RTV566A
Viscosity	42700 cP	42700 cP	
Collected Volatile Condensable Material	0.020 %	0.020 %	After 24 hours at 125°C and 1 x 10 ⁻⁶ Torr

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	61	61	
Tensile Strength, Ultimate	5.49 MPa	797 psi	
Elongation at Break	120 %	120 %	
Adhesive Bond Strength	3.24 MPa	470 psi	Lap shear, on primed Al

Processing Properties	Metric	English	Comments
Cure Time	132 min	2.20 hour	Tack-free

Descriptive Properties	Value	Comments
% Total Weight Loss	0.0014	After 24 hours at 125°C and 1 x 10 ⁻⁶ Torr
Application rate	180 g/min	45 mins after mixing, 0.125 in. orifice @ 90 psi
Color	Red for A, Yellow Brown for B	
Work Time	1.5 hours	

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