

High Strength Silicone Rubber

HR-431,531 and 731 are specially designed for high strength applications.

FEATURES

- High Tear Strength
- High Tensile Strength
- High Elongation
- Excellent Extrusion Processing
- Good Molding Processing
- Comply with FDA Reg. 21 CFR 177.2600

APPLICATIONS

- High Mechanical Articles
- Food Contact Articles.
- Medical Articles (For External use only)
- Air Craft Parts

PROPERTIES

Catalyst : HC-8 / 1.8phr (171°C×10min / 200°C×4hrs)

Typical Properties	Test Method	HR-431	HR-531	HR-731
Color	ASTM E 1716	Transparent		
Specific Gravity	ASTM D 792	1.11	1.15	1.21
Hardness	ASTM D 2240	40	50	70
Tensile Strength (MPa)	ASTM D 412	9.5	11	10
Elongation (%)	ASTM D 412	700	650	450
Tear Strength (kgf/cm)	ASTM D 624 "B"	38	39	40
Rebound resilience (%)	JIS K 6255	50	50	45
Compression set (%) ^{*1}	ASTM D 395	45	45	50
Volume Resistivity (ohm.cm)	ASTM D 257	10 ¹⁶	10 ¹⁶	10 ¹⁶
Dielectric Strength (KV/mm)	ASTM D 149	20	20	20
Dielectric constant (1KHz)	ASTM 150	2.9	2.9	2.9
Food Contact	FDA	YES	YES	YES

*1. Compression Set : 177°C×22hrs