

General Purpose For Molding Silicone rubber

HR-1901U Series are up grade general-purpose silicone rubber which are used for wide range of applications. There mill workability, mold release ability. There are good mechanical properties

FEATURES

- Good physical properties.
- Excellent processability in press molding & injection and all other process.
- Price Advantage
- Qualified UL94HB.
- Comply with FDA Reg. 21 CFR 177.2600
- Good Rebound resilience



APPLICATIONS

- General Industrial Parts.
- Electronic Parts, Keypad, O/A rolls.
- Food contact parts, packing.
- Automotive parts.

PROPERTIES

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

Typical Properties	Test Methods	HR-1931U(T)	HR-1941U(T)	HR-1951U(T)	HR-1961U(T)	HR-1971U(T)
Colors	ASTM E 1767	Translucent				
William's plasticity	ADTM D 926	160	180	210	230	240
Specific gravity	ASTM D 792	1.09	1.13	1.15	1.16	1.20
Hardness	ASTM D 2240	30	40	50	60	70
Tensile Strength (MPa)	ASTM D 412	6.5	7.5	8.5	8	8
Elongation (%)	ASTM D 412	500	400	300	230	200
Tear strength (kgf/cm)	ASTM D 624 "B"	8	8	8.5	8.5	8.5
	ASTM D 624 "C"	16	18	20	20	22
Rebound resilience (%)	ASTM D 1054	61	66	70	65	62
Compression set (%) ^{*1}	ASTM D 395	16	14	13	15	15
Linear shrinkage (%)	JIS K 6249	4.2	4.1	3.9	3.8	3.6

*1. Compression Set : 177°C×22hrs

TECHNICAL INFORMATION



PROPERTIES

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

Typical Properties	Test Methods	HR-1975U(T)	HR-1981U(T)	HR-1961U(G)	HR-1971U(G)	HR-1981U(G)
Colors	ASTM E 1767	Translucent		Natural gray		
William's plasticity	ADTM D 926	260	280	230	250	280
Specific gravity	ASTM D 792	1.20	1.21	1.24	1.35	1.42
Hardness	ASTM D 2240	75	80	60	70	80
Tensile Strength (MPa)	ASTM D 412	9.5	8.5	7.5	8	8
Elongation (%)	ASTM D 412	210	160	210	150	120
Tear strength (kgf/cm)	ASTM D 624 "B"	9	8	8	8	8
	ASTM D 624 "C"	23	18	20	18	16
Rebound resilience (%)	ASTM D 1054	56	60	54	55	42
Compression set (%) ^{*1}	ASTM D 395	12	14	19	21	26
Linear shrinkage (%)	JIS K 6249	3.5	3.7	3.6	3	3

*1. Compression Set : 177°C×22hrs