Platinum Cure Silicone

JEHBSIL® PLAT Series



Technical Datasheet

Material Overview

pharmaceutical applications. It can be extruded into any shape, is available in many hardness grades (40-90 Shore A). Platinum cure silicone also exhibits superior elongation, tensile strength, tear strength compression set compared to GP silicone.

All platinum cured silicones are FDA, WRAS, RoHS and USP class VI certified, and Plat-60 and Plat-70 grade tubing are AS 4020 approved. Platinum silicone can be used at extremely high and low temperatures, and are chemically resistant to UV light and a wide variety of substances.

Jehbsil Platinum Silicone is our highest Custom grades of silicone can also be specification grade of solid silicone rubber. It engineered on request to match specific is particularly suited for food contact, mechanical property requirements, typically medical grade, drinking water contact and by combining different peroxide grades (eg. 55 Shore A). All Jehbsil silicones can be made to match any colour on demand.



Technical Specifications

Property	Typical Values Jehbsil Platinum Material Codes							Inspection
	Unit	Plat-30	Plat-40	Plat-50	Plat-60	Plat-70	Plat-90	Method
Hardness	Shore A	30	40	50	60	70	90	DIN 53505
Density	g/cm³	1.11	1.11	1.15	1.16	1.18	1.2	ISO 1183-1A
Tensile Strength	N/mm²	8.9	10.2	9.6	9.5	9.1	6.4	DIN 53504 \$1
Elongation at Break	%	800	880	825	830	600	150	DIN 53504 \$1
Compression Set ¹	%	20	25	20	20	14	30	DIN ISO 815B
Tear Strength	N/mm	31	20	38	40	39	17	ASTM D624B
Rebound Resilience	%	54	58.0	50	49	56	65	DIN 53512
Autoignition Temp.	°C	>400						DIN 51794
Service Temp.	°C	-60 to +200						ASTM D2000
FDA Food Contact		Yes						CFR 21§177.2600
WRAS Water Contact		Yes						WRAS
AS 4020 Drinking Water		Certified for Plat-60 and Plat-70						AS 4020
US Pharmacopeia		Class VI Certified						USP Class VI
RoHS		Compliant						RoH\$ 2015

¹ Compression Set Measured at 22 hrs at 175°C.