



**PC40 to PC80  
Platinum Cured Silicone Rubber  
40 – 80° Shore Hardness**

A platinum cured grade range of silicone rubbers offering good tear strength and excellent translucency. They can be used for tubing, catheters and components of other medical devices. It can be used for seals for food processing.

- High thermal stability
- Excellent low-temperature flexibility
- Good resistance to media and chemicals
- Good aging resistance (UV, ozone, radiation)
- Good processability (Material is suitable for complex extruded profiles)
- Good standard mechanical properties that remains constant over a broad range of temperatures.

These Rubbers can be supplied pigmented a wide range of colours or transparent.

Temperature range -60°C to 200°C.

If you require a high temperature Platinum cured material for your application then ask to see our PCHT range data sheet.

E: Extrusion M: Moulding

Process			E	M	E	M	E	M	E	M	E	M
Grades			PC 40		PC50		PC60		PC70		PC80	
Specific Gravity	DIN 53 479A	g/cm <sup>3</sup> ± 0.02	1.12		1.15		1.14		1.17		1.19	
Hardness	DIN 53 505	Shore A ± 5	40	40	50	50	60	60	70	70	80	80
Tensile Strength	DIN53504-S1	N/mm <sup>2</sup>	9.3	9.5	10.4	10.6	10.4	10.8	10.7	10.9	9.6	9.0
Elongation	DIN53504-S1	%	570	750	535	695	520	675	500	635	375	325
Tear Resistance	ASTM D 624 B	N/mm	19	22	24	27	24	30	25	30	23	24
Impact Resistance	DIN 53 512	%	57	52	54	50	58	60	56	56	54	55
Compression Set	DIN 53517	22 h/175° C %	35	18	35	19	35	18	35	16	40	16

**Compliance and Approvals:**

USP CLASS VI Approved

FDA § 177.2600.

BfR XV Silicones regulations.

EC1935/2004

Flammability Information: If tested, PCxx would fulfil the requirements as laid down by UL standard 94HB

E & O.E. Figures given above are for guidance only and should not be used in preparing specifications.

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