

Data Sheet: PU70 Clear

MATERIAL: POLYURETHANE 70 SHORE – PEROXIDE CURED

COLOUR: TRANSPARENT

GENERAL SERVICE TEMPERATURE RANGE: -50°C to +80°C

SPECIFICATION: ASTM D2000 M3BG714 B14 EA14 EO14

PHYSICAL PROPERTIES	TEST METHOD	REQUIREMENT	TEST RESULT
HARDNESS, SHORE A	ASTM D2240-05	70±5	70
TENSILE STRENGTH, PSI (MPa)	ASTM D412-06A	2031(MIN)	2830 (19.52)
ELONGATION, %	ASTM D412-06A	250 (MIN)	510
MODULUS AT 100%, PSI (MPa)	ASTM D412-06A		349 (2.41)
SPECIFIC GRAVITY (g/cm ³)			1.168

COMPRESSION SET			
22 hrs @ 100°C, METHOD B	ASTM D395-03	50% (BUTTON) (MAX)	37.3

WATER RESISTANCE, 70 hrs @100°C

HARDNESS CHANGE, POINTS	ASTM D471-12A	±10	-4
TENSILE STRENGTH CHANGE, %	ASTM D471-12A		-20
ELONGATION CHANGE, %	ASTM D471-12A		-8
VOLUME CHANGE, %	ASTM D471-12A	±15	+9.1

FLUID RESISTANCE, IRM 901 OIL, 70 HRS @ 100°C

HARDNESS CHANGE, POINTS	ASTM D471-12A	-7~+5	-4
TENSILE STRENGTH CHANGE, %	ASTM D471-12A	-20 (MAX)	-18
ELONGATION CHANGE, %	ASTM D471-12A	-40 (MAX)	-7
VOLUME CHANGE, %	ASTM D471-12A	-5~+10	+6.8

The above test results are based on test slabs / buttons. The results from the actual parts may be different.

Issue Date: 18.05.2023