

Data Sheet: PU90 Clear

MATERIAL: POLYURETHANE 90 SHORE

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 D2240-04	90±5	89
TENSILE STRENGTH, PSI (MPa)	ASTM D412-06A	1450 (MIN)	2548 (17.57)
ELONGATION, %	ASTM D412-06A	100 (MIN)	263
MODULUS AT 100%, PSI (MPa)	ASTM D412-06A		1193 (8.23)
SPECIFIC GRAVITY (g/cm ³)			1.229
COMPRESSION SET			
22 hrs @ 100°C, METHOD B	ASTM D395-03	50% (BUTTON) (MAX)	30.1
WATER RESISTANCE, 70 hrs @ 100°C			
HARDNESS CHANGE, POINTS	ASTM D471-12A	±10	-6
TENSILE STRENGTH CHANGE, %	ASTM D471-12A		-10
ELONGATION CHANGE, %	ASTM D471-12A		+11
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)	-15
ELONGATION CHANGE, %	ASTM D471-12A	-40 (MAX)	0
VOLUME CHANGE, %	ASTM D471-12A	-5~+10	+5.8

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

Issue Date: 18.05.2023