

MATERIAL DATA SHEET

ELASTOMER QUALITY

TSP-Silicone Nature 60A

DESCRIPTION

Nature colored HTV-silicone-rubber/MVQ

PROPERTIES	TEST METHOD	UNIT	DEFAULT	ACTUAL
Hardness	DIN ISO 7619-1	Shore A	60 +/- 3	60
Density	DIN EN ISO 1183-1	g/cm ³	1,16 +/- 0,02	1,16
Tensile strength at break	ISO 37, DIN 53504	MPa	7,5	7,5
Elongation at break, min.	ISO 37, DIN 53504	%	300	300
100% Modulus	ISO 37, DIN 53504	MPa	not spec.	
300% Modulus	ISO 37, DIN 53504	MPa	not spec.	
Tear strength	ISO 34-1	kN/m	not spec.	
Compression set at 72h/23°C	ASTM D 395-89-B	%	not spec.	
Compression set at 22h/70°C	ISO 815	%	not spec.	
Compression set at 22h/-25°C	ASTM D 395-89-B	%	not spec.	
Hardness change after ageing (168h/70°C)	ISO 188	Shore A	not spec.	
Tensile strength change after ageing (168h/70°C)	ISO 188	%	not spec.	
Elongation at break after ageing (168h/70°C)	ISO 188	%	not spec.	
Change in Hardness (from 23°C to -10°C for 22h)	ISO 188	Shore A	not spec.	
Ozone resistance (100PPCM/200h/20%Stretch)	ISO 1431	class	not spec.	
UV Resistance (1500h/40°C in QUV)		class	not spec.	
Brittle Temperature		°C	not spec.	
Maximum Dynamic Service Temperatur		°C	not spec.	
Hot Air resistance		°C	max 200	max 200

ADDITIONAL INFORMATION

TSP-Silicone is a special modified HTV-silicone-rubber/MVQ material.

Properties are measured after a postcuring process of 4 h at 200°C.

Food-contact conformity for BFR XV, Teil A, Silicone.

Food contact conformity for Rubber Articles Intended for Repeated Use" FDA § 177.2600.