

TSE Industries Millathane® 5004 Millable Polyurethane Elastomer with 40 PHR N330 (HAF) Black

Category: Polymer, Thermoset, Polyester, TS, Polyurethane, TS, Thermoset Polyurethane, Elastomer, Unreinforced, Rubber or Thermoset Elastomer (TSE)

Material Notes:

MILLATHANE 5004 is a millable polyurethane elastomer having excellent processing characteristics. MILLATHANE 5004 stocks can be readily processed on conventional rubber equipment. Vulcanization is carried out by the use of various peroxides including dicumyl peroxide (DCP) or 2,5-dimethyl-2,5-bis (t-butylperoxy) hexane (DBPH). Formulation Millathane 5004100 Stearic Acido. 25N330 (HAF) Black 40Di-Cup 40C4.6 All information provided by TSE Industries

Order this product through the following link:

http://www.lookpolymers.com/polymer_TSE-Industries-Millathane-5004-Millable-Polyurethane-Elastomer-with-40-PHR-N330-HAF-Black.php

| Hardness, Shore A 75 75 Readiness, Shore A 79 heat aged one week at 300°F Reading Strength, Yield 11.0 MPa 1600 psi heat aged one week at 300°F Pensile Strength, Yield 19.0 MPa 2760 psi heat aged 70 hours at 300°F Elongation at Yield 28.5 MPa 4140 psi heat aged 70 hours at 300°F Elongation at Yield 310 % heat aged one week at 300°F 100% Modulus 340 % heat aged one week at 300°F 100% Modulus 0.00427 GPa 0.620 ksi heat aged one week at 300°F 200% Modulus 0.00910 GPa 1.32 ksi 200% Modulus 0.00320 GPa 1.19 ksi heat aged one week at 300°F E 0.0137 GPa 1.99 ksi heat aged 70 hours at 300°F B 0.0196 GPa 2.84 ksi heat aged one week at 300°F | Mechanical Properties | Metric | English | Comments |
|---|-------------------------|-------------|-----------|-----------------------------|
| No. | Hardness, Shore A | 75 | 75 | |
| Tensile Strength, Yield 11.0 MPa 1600 psi heat aged one week at 300°F 19.0 MPa 2760 psi heat aged 70 hours at 300°F 28.5 MPa 4140 psi Elongation at Yield 280 % 100 % | | 79 | 79 | heat aged one week at 300°F |
| 19.0 MPa 2760 psi heat aged 70 hours at 300°F 28.5 MPa 4140 psi 280 % 280 % heat aged 70 hours at 300°F 310 % 310 % heat aged one week at 300°F 340 % 340 % 100% Modulus 0.00427 GPa 0.620 ksi heat aged one week at 300°F 0.00607 GPa 0.880 ksi heat aged 70 hours at 300°F 0.00910 GPa 1.32 ksi 200% Modulus 0.00820 GPa 1.19 ksi heat aged one week at 300°F 0.0137 GPa 1.99 ksi heat aged 70 hours at 300°F 0.0196 GPa 2.84 ksi | | 80 | 80 | heat aged 70 hours at 300°F |
| 28.5 MPa 4140 psi | Tensile Strength, Yield | 11.0 MPa | 1600 psi | heat aged one week at 300°F |
| Elongation at Yield 280 % 280 % heat aged 70 hours at 300°F 310 % 310 % heat aged one week at 300°F 340 % 340 % 100% Modulus 0.00427 GPa 0.620 ksi heat aged one week at 300°F 0.00607 GPa 0.880 ksi heat aged 70 hours at 300°F 0.00910 GPa 1.32 ksi 200% Modulus 0.00820 GPa 1.19 ksi heat aged one week at 300°F 0.0137 GPa 1.99 ksi heat aged 70 hours at 300°F heat aged 70 hours at 300°F 2884 ksi | | 19.0 MPa | 2760 psi | heat aged 70 hours at 300°F |
| 310 % 310 % heat aged one week at 300°F 340 % 340 % 100% Modulus 0.00427 GPa 0.620 ksi heat aged one week at 300°F 0.00607 GPa 0.880 ksi heat aged 70 hours at 300°F 0.00910 GPa 1.32 ksi 200% Modulus 0.00820 GPa 1.19 ksi heat aged one week at 300°F 0.0137 GPa 1.99 ksi heat aged 70 hours at 300°F 0.0196 GPa 2.84 ksi | | 28.5 MPa | 4140 psi | |
| 340 % 340 % 100% Modulus 0.00427 GPa 0.620 ksi heat aged one week at 300°F 0.00607 GPa 0.880 ksi heat aged 70 hours at 300°F 0.00910 GPa 1.32 ksi heat aged one week at 300°F 0.00820 GPa 1.19 ksi heat aged one week at 300°F 0.0137 GPa 1.99 ksi heat aged 70 hours at 300°F 0.0196 GPa 2.84 ksi | Elongation at Yield | 280 % | 280 % | heat aged 70 hours at 300°F |
| 100% Modulus 0.00427 GPa 0.620 ksi heat aged one week at 300°F 0.00607 GPa 0.880 ksi heat aged 70 hours at 300°F 200% Modulus 0.00910 GPa 1.32 ksi 200% Modulus 0.00820 GPa 1.19 ksi heat aged one week at 300°F 0.0137 GPa 1.99 ksi heat aged 70 hours at 300°F 0.0196 GPa 2.84 ksi | | 310 % | 310 % | heat aged one week at 300°F |
| 0.00607 GPa 0.880 ksi heat aged 70 hours at 300°F 0.00910 GPa 1.32 ksi 200% Modulus 0.00820 GPa 1.19 ksi heat aged one week at 300°F 0.0137 GPa 1.99 ksi heat aged 70 hours at 300°F 0.0196 GPa 2.84 ksi | | 340 % | 340 % | |
| 0.00910 GPa 1.32 ksi 200% Modulus 0.00820 GPa 1.19 ksi heat aged one week at 300°F 0.0137 GPa 1.99 ksi heat aged 70 hours at 300°F 0.0196 GPa 2.84 ksi | 100% Modulus | 0.00427 GPa | 0.620 ksi | heat aged one week at 300°F |
| 200% Modulus 0.00820 GPa 1.19 ksi heat aged one week at 300°F 0.0137 GPa 1.99 ksi heat aged 70 hours at 300°F 0.0196 GPa 2.84 ksi | | 0.00607 GPa | 0.880 ksi | heat aged 70 hours at 300°F |
| 0.0137 GPa 1.99 ksi heat aged 70 hours at 300°F 0.0196 GPa 2.84 ksi | | 0.00910 GPa | 1.32 ksi | |
| 0.0196 GPa 2.84 ksi | 200% Modulus | 0.00820 GPa | 1.19 ksi | heat aged one week at 300°F |
| | | 0.0137 GPa | 1.99 ksi | heat aged 70 hours at 300°F |
| 300% Modulus 0.0110 GPa 1.59 ksi heat aged one week at 300°F | | 0.0196 GPa | 2.84 ksi | |
| | 300% Modulus | 0.0110 GPa | 1.59 ksi | heat aged one week at 300°F |
| 0.0270 GPa 3.91 ksi | | 0.0270 GPa | 3.91 ksi | |



| Processing Properties | Metric | English | Comments |
|-----------------------|---------------------|---------------------|----------|
| Cure Time | 30.0 min | 0.500 hour | |
| | @Temperature 152 °C | @Temperature 305 °F | |

Contact Songhan Plastic Technology Co.,Ltd.

Website: www.lookpolymers.com Email: sales@lookpolymers.com

Tel: +86 021-51131842 Mobile: +86 13061808058

Skype: lookpolymers

Address: United North Road 215, Fengxian District, Shanghai City, China