

TSE Industries Millathane® 5004 Millable Polyurethane Elastomer with 20 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 5004 100 Stearic Acid 0.25 N330 (HAF) Black 20 Di-Cup 40 C4.0 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-20-PHR-N330-HAF-Black.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	57	57	heat aged one week at 300°F
	64	64	heat aged 70 hours at 300°F
	68	68	
Tensile Strength, Yield	11.1 MPa	1610 psi	heat aged one week at 300°F
	20.3 MPa	2950 psi	heat aged 70 hours at 300°F
	31.7 MPa	4600 psi	
Elongation at Yield	440 %	440 %	heat aged one week at 300°F
	460 %	460 %	
	460 %	460 %	heat aged 70 hours at 300°F
100% Modulus	0.00145 GPa	0.210 ksi	heat aged one week at 300°F
	0.00241 GPa	0.350 ksi	heat aged 70 hours at 300°F
	0.00414 GPa	0.600 ksi	
200% Modulus	0.00400 GPa	0.580 ksi	heat aged one week at 300°F
	0.00655 GPa	0.950 ksi	heat aged 70 hours at 300°F
	0.0103 GPa	1.50 ksi	
300% Modulus	0.00696 GPa	1.01 ksi	heat aged one week at 300°F
	0.0126 GPa	1.83 ksi	heat aged 70 hours at 300°F
	0.0193 GPa	2.80 ksi	

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

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