

Dow Nardel® IP 4640 Low Cost General Purpose Hose

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE)

Material Notes:

FormulationNardel® IP 4640

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-Nardel-IP-4640-Low-Cost-General-Purpose-Hose.php

Physical Properties	Metric	English	Comments
Density	1.157 g/cc	0.04180 lb/in ³	
Mooney Viscosity	37 @Temperature 100 °C	37 @Temperature 212 °F	ML 1 + 4

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	64	64	Vulcanizate, Press cured, TC95 +3min at 160°C
Tensile Strength, Ultimate	7.20 MPa	1040 psi	Vulcanizate, Press cured, TC95 +3min at 160°C
Elongation at Break	423 %	423 %	Vulcanizate, Press cured, TC95 +3min at 160°C
100% Modulus	0.00260 GPa	0.377 ksi	Vulcanizate, Press cured, TC95 +3min at 160°C
200% Modulus	0.00520 GPa	0.754 ksi	Vulcanizate, Press cured, TC95 +3min at 160°C
300% Modulus	0.00640 GPa	0.928 ksi	Vulcanizate, Press cured, TC95 +3min at 160°C
Tear Strength	29.6 kN/m	169 pli	Die C, Vulcanizate, Press cured, TC95 +3min at 160°C
Compression Set	64 % @Temperature 125 °C	64 % @Temperature 257 °F	Pellets cured MDR TC95 + 15 min at 160°C, 70 hr at 125°C; Method B

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-36.0 °C	-32.8 °F	Temperature Retraction, TR-10

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