



NexPrene[®] 9085A

DESCRIPTION:

NexPrene[®] 9085A thermoplastic vulcanizate is a fully crosslinked EPDM/PP compound. It is designed to replace thermoset elastomers, such as EPDM or polychloroprene, and traditional thermoplastic TPVs. NexPrene[®] 9085A provides the performance of vulcanized rubber with the advantage of low-cost thermoplastic processing.

APPLICATIONS:

Suitable for applications requiring flexibility in the following markets: automotive, appliance, business machines, construction, consumer products, electrical & electronics, fluid delivery, hardware, and medical devices.

| PROPERTY | TYPICAL VALUE | UNITS | TEST METHOD |
|---|----------------------|--------------|--------------------|
| PHYSICAL | | | |
| Hardness: Injection Molded, 5 sec | 85 | Shore A | ISO 868 |
| Specific Gravity 23°C | 0.96 | g/cc | ISO 1183 |
| IRM 903 Oil, Vol. Swell 125°C, 70 hrs | 69 | % | ISO 1817 |
| Compression Set 24 hr @ 23°C 70 hr @ 125°C | 25 63 | | ISO 815 |
| Brittle Point | <-50 | °C | ISO 812 |
| Ozone Resistance 500 hr, 100 pphm O ₃ conc. | Good | | ASTM D-1149 |
| MECHANICAL | | | |
| Tensile Strength 23°C, 550 mm/min | 10 | MPa | ISO 527 |
| Tensile Modulus @ 100% 23°C, 500 mm/min | 6.6 | MPa | ISO 527 |
| Ultimate Elongation 23°C, 500 mm/min | 350 | % | ISO 527 |
| Tear Strength 23°C, 500 mm/min | 50 | kN/m | ISO 34 (Die C) |

Properties determined on injection molded slabs, 150mm x 100mm x 2mm

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