

FORPRENE® 6NM901A75 NERO - TPV

Description

FORPRENE 6NM901A75 NERO is a PP+EPDM thermoplastic vulcanizate (TPV) with crosslinked rubber phase, having a nominal 75 Shore A hardness, in black color. It is formulated for injection molding applications requiring a balance of heat resistance, chemical resistance, and rubber mechanical resiliency.

Physical properties	Value	Unit	Test Standard
Density	59.7	lb/ft ³	ISO 1183
Mechanical properties (TPE)	Value	Unit	Test Standard
Tensile stress at 100%, perpendicular	464	psi	ISO 37
Tensile stress at 300%, perpendicular	682	psi	ISO 37
Compression set, 70 °C, 22h, Type A	36	%	ISO 815
Compression set, 100 °C, 22h, Type A	46	%	ISO 815
Tensile strain at break, perpendicular	521	%	ISO 37
Tensile stress at break, perpendicular	928	psi	ISO 37
Shore A hardness-TPE, 15s	77	-	ISO 868
Tear strength, Method Ba, perpendicular	189	lb/in	ISO 34-1
Tensile set (elastomers)	19	%	ASTM D412
Thermal properties	Value	Unit	Test Standard
Low temperature brittleness	-86.1	°F	ISO 812
Flammability at thickness h	HB	class	UL 94
thickness tested (h)	0.0591	in	UL 94

Typical injection moulding processing conditions

Pre Drying	Value	Unit
Drying time	3	h
Drying temperature	176	°F
Temperature	Value	Unit
Zone1 temperature	347 - 365	°F
Zone2 temperature	365 - 383	°F
Zone3 temperature	374 - 392	°F
Nozzle temperature	383 - 401	°F
Mold temperature	68 - 104	°F

Other text information

Pre-drying

3h@80C

Longer pre-drying times/storage

Forprene must be stored indoors in the original, unopened and undamaged packaging, away from direct sunlight, moisture and heat.

Characteristics

Special Characteristics	Auto spec approved
Processing	Injection molding



Other Approvals

OEM	Specification
GM	GMW15813P-TPV(EPDM+PP)-Type 6

General Disclaimer

NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colorants or other additives may cause significant variations in data values. Properties of molded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use. To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy and completeness of such information. The information contained in this publication should not be construed as a promise or guarantee of specific properties of our products. It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of the materials mentioned in this publication. Moreover, there is a need to reduce human exposure to many materials to the lowest practical limits in view of possible adverse effects. To the extent that any hazards may have been mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones that exist. We recommend that persons intending to rely on any recommendation or to use any equipment, processing technique or material mentioned in this publication should satisfy themselves that they can meet all applicable safety and health standards. We strongly recommend that users seek and adhere to the manufacturer's current instructions for handling each material they use, and entrust the handling of such material to adequately trained personnel only. Please call the telephone numbers listed for additional technical information. Call Customer Services for the appropriate Materials Safety Data Sheets (MSDS) before attempting to process our products. The products mentioned herein are not intended for use in medical or dental implants.

Trademark

© 2022 Celanese or its affiliates. All rights reserved. Celanese®, registered C-ball design and all other trademarks identified herein with ®, TM, SM, unless otherwise noted, are trademarks of Celanese or its affiliates. Fortron is a registered trademark of Fortron Industries LLC. KEPITAL is a registered trademark of Korea Engineering Plastics Company, Ltd.

