

FORPRENE® 6NM001A75 NEUTRO - TPV

Description

FORPRENE 6NM001A75 NEUTRO is a PP+EPDM thermoplastic vulcanizate (TPV) with crosslinked rubber phase, having a nominal 75 Shore A hardness, in natural color. It is formulated for injection molding applications requiring a balance of heat resistance, chemical resistance and rubber mechanical resiliency.

Note: Continuous Service Temperature is tested per SAE J2236 standard, 'Standard Method for Determining Continuous Upper Temperature Resistance of Elastomers'

Physical properties	Value	Unit	Test Standard
Density	59	lb/ft ³	ISO 1183

Mechanical properties (TPE)	Value	Unit	Test Standard
Tensile stress at 100%, perpendicular	493	psi	ISO 37
Tensile stress at 300%, perpendicular	740	psi	ISO 37
Compression set, 70 °C, 22h, Type A	38	%	ISO 815
Tensile strain at break, perpendicular	475	%	ISO 37
Tensile stress at break, perpendicular	972	psi	ISO 37
Shore A hardness-TPE, 15s	77	-	ISO 868
Tear strength, Method Ba, perpendicular	177	lb/in	ISO 34-1

Thermal properties	Value	Unit	Test Standard
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

Processing Injection molding