



NEXPRENE 9035A

DESCRIPTION:

NexPrene[®] 9035A 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[®] 9035A 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
HYSICAL			
Hardness:			
Injection Molded, 5 sec	37	Shore A	ASTM D-2240
Extrusion, 5 sec	35		ISO 868
Injection Molded, 15 sec	35		
Specific Gravity			
23°C	0.92		ASTM D-792
	0.93		ISO 1183
Compression Set			
24 hr @ 23°C	14	%	ASTM D-395
72 hr @ 125°C	35		ISO 815
			ASTM D-395
			ISSO 815
Brittle Point	-60	°C	ASTM D-746
	-70		ISO 812
Ozone Resistance			
500 hr, 100 pphm O ₃ conc.	Excellent		ASTM D-1149
MECHANICAL			
Tensile Strength			
23°C, 500 mm/min	3.0	MPa	ASTM D-412
	5.6		ISO 527
Tensile Modulus @ 100%			
23°C, 500 mm/min	1.2	MPa	ASTM D-412
	1.3		ISO 527
Ultimate Elongation			
23°C, 500 mm/min	400	%	ASTM D-412
	420		ISO 527
Tear Strength			
23°C, 500 mm/min	9.5	kN/m	ASTM D-624 (Die C)
	8.2		ISO 34 (Die C)

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