



NEXPRENE 9055A

DESCRIPTION:

NexPrene® 9055A 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® 9055A 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
HYSCAL			
Hardness:			
Injection Molded, 5 sec	57	Shore A	ASTM D-2240
Extrusion, 5 sec	54		ISO 868
Injection Molded, 15 sec	55		
Specific Gravity			
23°C	0.95		ASTM D-792
	0.96		ISO 1183
Compression Set			
24 hr @ 23°C	13	%	ASTM D-395
72 hr @ 125°C	39		ISO 815
			ASTM D-395
			ISO 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	4.0	MPa	ASTM D-412
	7.3		ISO 527
Tensile Modulus @ 100%			
23°C, 500 mm/min	2.2	MPa	ASTM D-412
	2.4		ISO 527
Ultimate Elongation			
23°C, 500 mm/min	440	%	ASTM D-412
	460		ISO 527
Tear Strength			
23°C, 500 mm/min	23	kN/m	ASTM D-624 (Die C)
	18		ISO 34 (Die C)

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