



NEXPRENE 9065A

DESCRIPTION:

NexPrene[®] 9065A 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[®] 9065A 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	65	Shore A	ASTM D-2240
Extrusion, 5 sec	63		ISO 868
Injection Molded, 15 sec	63		
Specific Gravity			
23°C	0.94		ASTM D-792
	0.95		ISO 1183
Compression Set			
24 hr @ 23°C	24	%	ASTM D-395
72 hr @ 125°C	46		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	5.2	MPa	ASTM D-412
			ISO 527
Tensile Modulus @ 100%			
23°C, 500 mm/min	2.8	MPa	ASTM D-412
			ISO 527
Ultimate Elongation			
23°C, 500 mm/min	450	%	ASTM D-412
			ISO 527
Tear Strength			
23°C, 500 mm/min	29.8	kN/m	ASTM D-624 (Die C)
			ISO 34 (Die C)

April 24, 2006

Solvay
Engineered Polymers
1200 Harmon Road
Auburn Hills, MI 48326
Phone: (248) 391-9500
Fax: (248) 391-9501

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