



### **NEXPRENE 9050D**

#### **DESCRIPTION:**

NexPrene<sup>®</sup> 9050D thermoplastic vulcanizate is a fully crosslinked, EPDM/PP compound. It is designed for injection molding, extrusion, and blow molding applications (with no drying prior to processing) where soft touch and flexibility are needed. These materials are easy to color (due to extreme white neutral color), weatherable, and may be recycled with other polyolefins.

#### **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
<b>PHYSICAL</b>			
Hardness:			
Injection Molded, 5 sec	50	Shore A	ASTM D-2240
Extrusion, 5 sec	48		ISO 868
Injection Molded, 15 sec	48		
Specific Gravity 23°C	0.95		ASTM D-792 ISO 1183
IRM 903 Oil, Vol. Swell 70 hr @ 125°C	51	%	ASTM D-471 ISO 1817
Compression Set 22 hr @ 70°C	45	%	ASTM D-395 ISO 815
70 hr @ 125°C	80		ASTM D-395 ISSO 815
70 hr @ 125°C	82		
Brittle Point	-30	°C	ASTM D-746 ISO 812
Ozone Resistance 500 hr, 100 pphm O <sub>3</sub> conc.	Good		ASTM D-1149
<b>MECHANICAL</b>			
Tensile Strength 23°C, 500 mm/min	24	MPa	ASTM D-412 ISO 527
Tensile Modulus @ 100% 23°C, 500 mm/min	14	MPa	ASTM D-412 ISO 527
Ultimate Elongation 23°C, 500 mm/min	840	%	ASTM D-412 ISO 527
Tear Strength 23°C, 500 mm/min	114	kN/m	ASTM D-624 (Die C) ISO 34 (Die C)

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