



**NexPrene 9050A**

**DESCRIPTION:**

NexPrene<sup>®</sup> 9050A thermoplastic elastomer is a fully crosslinked, EPDM/PP compound 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, and fluid delivery.

PROPERTY	TYPICAL VALUE	UNITS	TEST METHOD
<b>PHYSICAL</b>			
Hardness:			
Injection Molded, 5 sec	52	Shore A	ISO 868
Injection Molded, 15 sec	51		
Specific Gravity			
23°C	0.96	g/cc	ASTM D-792
IRM 903 Oil, Vol. Swell			
72 hr @ 125°C	85	% (by Vol.)	ISO 1817
Compression Set			
24 hrs @ 23°C	11	%	ISO 815, Large
24 hrs @ 100°C	-		
72 hrs @ 125°C	39		
Brittle Point	< -60	°C	ASTM D-746
Fogging (Photometric Method)			
95°C, 6 hrs, 38°C plate	84	%	SAE J1756 – 1 hr/23° cond.
95°C, 6 hrs, 38°C plate	87		SAE J1756 – 16 hr/23° cond.
Weathering (Black Sample)			
Color change (Interior)	<1	Delta E	SAE J1885 (1200 kJ/m <sup>2</sup> )
Color change (Exterior)	<1		SAE J1960 (2400 kJm <sup>2</sup> )
Solar Aging for 12 months	-		SAE J1976
<b>MECHANICAL</b>			
Tensile Strength			
23°C	3.3	MPa	ISO 37, Type 1
Tensile Modulus @ 100%			
23°C, 500 mm/min	2	MPa	ISO 37, Type 1
Ultimate Elongation			
23°C, 500 mm/min	260	%	ISO 37, Type 1
Tear Strength			
23°C	15	kN/m	ISO 34-1 (B)

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