



## **NEXPRENE 9045A**

### **DESCRIPTION:**

NexPrene<sup>®</sup> 9045A 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<sup>®</sup> 9045A 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.

<b>PROPERTY</b>	<b>TYPICAL VALUE</b>	<b>UNITS</b>	<b>TEST METHOD</b>
<b>PHYSICAL</b>			
Hardness:			
Injection Molded, 5 sec	47	Shore A	ASTM D-2240
Extrusion, 5 sec	45		ISO 868
Injection Molded, 15 sec	45		
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 <sub>3</sub> conc.	Excellent		ASTM D-1149
<b>MECHANICAL</b>			
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	1.5	MPa	ASTM D-412
	1.8		ISO 527
Ultimate Elongation			
23°C, 500 mm/min	400	%	ASTM D-412
	420		ISO 527
Tear Strength			
23°C, 500 mm/min	13	kN/m	ASTM D-624 (Die C)
	12		ISO 34 (Die C)

March 4, 2005

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

NEXPRENE<sup>®</sup> is trademark of Solvay Engineered Polymers. To our actual knowledge, the information contained herein is accurate as of the date hereof. However, neither Solvay Engineered Polymers, no any affiliate of company makes any warranty, express or implied, nor accepts any liability in connection with this information or its use. This information is for use by technically skilled persons at their own discretion and risk, and does not relate to the use of any product in combination with any other substance or in any process. This is not a license under any patent or other propriety right. The user alone must finally determine suitability of any information or material for any contemplated use, the manner of use, and whether any patents are infringed. The above information gives typical properties only and is not to be used for specification purposes.