



## TPV – 1075A-BK Datasheet

### **Description:**

TPV – 1075A-BK is a black thermoplastic Elastomer (TPE), that is based on PP/EPDM and fully vulcanized. It is designed to replace thermoset elastomers, such as EPDM or polychloroprene, and traditional thermoplastic TPVs/TPEs. TPV – 1075A-BK provides the performance of vulcanized rubber with the advantage of low-cost thermoplastic processing. Excellent oil and chemical resistance with a maximum service temperature of 275°F. It is ozone, UV and water resistant as well. This grade is also considered polyolefin.

### **Applications:**

Suitable for applications requiring flexibility in the following markets: automotive, appliance, business machines, construction, consumer products, electrical & electronics, fluid delivery, hardware, wire and cable, and medical devices.

<b>PROPERTY</b>	<b>Typical Value</b>	<b>Units</b>	<b>Test Method</b>
<b>PHYSICAL</b>			
<b>Hardness</b>			
Injection Molded, 5 sec	71	Shore A	ASTM D2240
Extrusion, 5 sec	75		
<b>Specific Gravity</b>			
23°C	.97		ASTM D792
<b>Compression Set [125C, 70H]</b>			
22 hr @ 70°C	35	%	ASTM D395
<b>Ozone Resistance</b>			
500 hr, 100 pphm O <sub>3</sub> conc.	Good		ASTM D1149
<b>MECHANICAL</b>			
<b>Tensile Strength</b>			
23°C, 500 mm/min	10	Mpa	ASTM D412
<b>Tensile Modulus @ 100%</b>			
23°C, 500 mm/min	3.6	Mpa	ASTM D412
<b>Ultimate Elongation</b>			
23°C, 500 mm/min	631	%	ASTM D412
<b>Tear Strength</b>			
23°C, 500 mm/min	47	kN/m	ASTM D624 (Die C)
<b>Flammability</b>			
	Pass		UL94-HB
<b>Maximum recommended operating temperature: 275°F</b>			