

PURPRENE A74 BK10

(PP/EPDM BASED VULCANIZED TPR)

PRODUCT DESCRIPTION: PURPRENE A74 BK10 is a heat stabilized PP/EPDM based Thermoplastic Vulcanized Elastomer (TPV). This black compound is for under the hood and interior applications. This material can be processed using Injection Molding, Extrusion, Blow Molding or other melt processing techniques. Product is supplied as free flowing pellets in 1000 pound Gaylord boxes or 50 pound bags.

PHYSICAL PROPERTIES: PURPRENE A74 BU (Black)

<u>PROPERTIES</u>	<u>Test Method</u>	<u>Unit</u>	<u>Typical Properties</u>
Color	--	--	Black
Melt Flow @230°C	ASTM D1238	g/10 minute, Nominal	2.5
Hardness	ASTM D2240	Shore A (5 second's delay)	74 ±3
Specific Gravity	ASTM D792	--	0.97 ± 0.03
Tensile Strength	ASTM D412-98a	Minimum MPa	⊥ 7.2 // 5.5
Tensile Stress @ 100% (Across Flow)	ASTM D412-98a	Minimum MPa	⊥ 2.8 // 3.5
Ultimate Elongation (Across Flow)	ASTM D412-98a	Minimum %	⊥ 480 // 300
Tear Strength (50mm/min)	ASTM D1004	Minimum N/mm	⊥ 29 // 23
Brittle Temperature	ASTM D746 ISO 812 B	°C Max.	-56 -54
Compression Set @ 125°C / 70 hours 70 °C / 22 hours	ASTM D395-B	% maximum	50 35

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PRODUCT DATA:

A74 BK10

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Oven Air Aging

(Perpendicular to the Flow)

168Hrs. @ 150°C

Change in Hardness	ASTM D412-98a	Shore A	± 5
Change in Tensile	ASTM D412-98a	%, Max	+10 to - 25
Change in Elongation	ASTM D412-98a	%, Max	+10 to - 25
Tensile Stress @ 100% Elongation	ASTM D412-98a	%, Max	± 10

1000Hrs @ 135°C

Change in Hardness	ASTM D412-98a	Shore A	± 5
Change in Tensile	ASTM D412-98a	%, Max	+10 to - 20
Change in Elongation	ASTM D412-98a	%, Max	+10 to - 20
Tensile Stress @ 100% Elongation	ASTM D412-98a	% Max	± 20

Fluid Aging

(Perpendicular to the Flow)

(IRM 903) 70h @125°C

Change in Tensile	ISO 1817	% Max	- 50
Change in Elongation		% Max	- 65
Tensile Stress @ 100% Elongation		% Max	- 20
Change in Volume		% Max	+ 90
Change in Tear		% Max	- 65
Change in Tensile		Max	- 35

Fogging Number	GM9305P	% Minimum	70
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Ozone Resistance	ISO 1431-1, "A" 100pphm, 40°C	Rating	0
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Colorfastness to Light		Change in Color	ΔE < 3.0
Xenon Arc		Surface Defects	No Objectionable defects
1240.8kJ/m2	SAE J1885		

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