

PURPRENE A88 BK10

(PP/EPDM BASED VULCANIZED TPR)

PRODUCT DESCRIPTION: PURPRENE A88 BK10 is a heat stabilized PP/EPDM based Thermoplastic Vulcanized Elastomer (TPV). This black compound is intended primarily for under the hood and interior applications and can be processed using Injection Molding, Extrusion, Blow Molding or other melt processing techniques. Product is supplied as free flowing pellets in 1000 Lb. Gaylord boxes or 55 pound bags.

PHYSICAL PROPERTIES: PURPRENE A88 BU

<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	5.0
Hardness	ASTM D2240	Shore A (5 second's delay)	88 ±4
Specific Gravity	ASTM D792	--	0.97 ± 0.03
Tensile Strength (Across Flow)	ASTM D412-98a	MPa minimum ⊥ //	13.1 9.0
Tensile Stress @ 100% (Across Flow)	ASTM D412-98a	MPa minimum ⊥ //	5.6 6.0
Ultimate Elongation (Across Flow)	ASTM D412-98a	% minimum ⊥ //	490 350
Tear Strength (50mm/min)	ASTM D1004	N/mm minimum ⊥ //	45 45
Brittle Temperature	ASTM D746	°C nominal	-52
Compression Set @ 125°C / 70 hours	ASTM D395-B	% maximum	80

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PRODUCT DATA:

A88 BK10

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Oven Air Aging

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%

ASTM D412-98a

%, Max

- 10

Elongn

(Perpendicular to the Flow)

1000Hrs @ 135°C

Change in Hardness

ASTM D412-98a

Shore A

± 5

Change in Tensile

ASTM D412-98a

%, Max

+10 to -35

Change in Elongation

ASTM D412-98a

%, Max

+10 to -35

Tensile Stress @ 100%

ASTM D412-98a

% Max

- 20

Elongn

(Perpendicular to the Flow)

Fluid Aging

(IRM 903) 70h @125°C

Change in Tensile

ISO 1817

% Max

-35

Change in Elongation

% Max

-55

Tensile Stress @ 100%

% Max

22

Elongation

% Max

+66

Change in Volume

% Max

- 60

Change in Tear

Fogging Number

SAE J 1756

% Minimum

70

Ozone Resistance

ISO 1431-1, "A"
100pphm, 40°C

Rating

0

Colorfastness to Light

Change in Color

ΔE < 3.0

Xenon Arc

SAE J1885

Surface Defects

No Objectionable defects

1240.8kJ/m2

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