

PURPRENE A74 BK10

Polypropylene + EPDM Rubber

Pier One Polymers, Inc.

Message:

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.

General Information			
Features	Vulcanizable		
Uses	Automotive Under the Hood		
Appearance	Black		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.940 to 1.00	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.5	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	71 to 77		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412A
Across Flow : 100% Strain	> 2.80	MPa	
Flow : 100% Strain	> 3.50	MPa	
Tensile Strength			ASTM D412A
Across Flow : Yield	> 7.20	MPa	
Flow : Yield	> 5.50	MPa	
Tensile Elongation			ASTM D412A
Across Flow : Break	> 480	%	
Flow : Break	> 300	%	
Tear Strength ¹			ASTM D1004
Across Flow	> 29.0	kN/m	
Flow	> 23.0	kN/m	
Compression Set			ASTM D395B
70°C, 22 hr	< 35	%	
125°C, 70 hr	< 50	%	
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			ASTM D573

135°C, 1000 hr	-35 to 100	%	
100% Strain, 135°C, 1000 hr	-20	%	
150°C, 165 hr	-25 to 10	%	
100% Strain, 150°C, 165 hr	-10	%	
Change in Ultimate Elongation in Air			ASTM D573
135°C, 1000 hr	-35 to 10	%	
150°C, 168 hr	-25 to 10	%	
Change in Durometer Hardness in Air			ASTM D573
Shore A, 135°C, 1000 hr	5.0		
Shore A, 150°C, 168 hr	5.0		
Change in Tensile Strength			ASTM D471
125°C, 70 hr, in IRM 903 Oil	-50 to -35	%	
100% Strain, 125°C, 70 hr, in IRM 903 Oil	< -20	%	
Change in Ultimate Elongation (125°C, 70 hr, in IRM 903 Oil)	< -65	%	ASTM D471
Change in Volume (125°C, 70 hr, in IRM 903 Oil)	< 90	%	ASTM D471
Change in Tear Strength ² (125°C)	< -65	%	
Fogging	> 70	%	GM 9503P
Color Fastness - Delta E	< 3.00		
Ozone Resistance - Rating ³ (40°C)	0.00		ISO 1431-1
Xenon Arc - Surface Defects ⁴	No Objectionable defects		SAE J1885
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature			
--	-56.0	°C	ASTM D746
Type B	-54.0	°C	ISO 812
NOTE			
1.	50 mm/min		
2.	IRM 903, 70 hrs		
3.	100 pphm		
4.	1240.8kJ/m ²		

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