

## V250.A74.B

## **PRODUCT DESCRIPTION**

A soft , black TPV (EPDM /PP ) material belongs to thermoplastic elastomer (TPE) family with superior UV resistance and excellent compression set. This product is specially designed for weatherseal applications.

GENERAL PROPERTIES			
Material Status	Active		
Availability	Europe North America Asia- Pasific Africa & Middle East		
Features	Ozone Resistance Adhesion to Polyolefins Recyclable Compliant with RoHS Directive 2011/65/EU		
Certification	RoHS		
Appearance	Black		
Form	Pellets		
Processing Method	Injection		

## GM/GMW 15812P (TYPE 6M)

Physical Properties					
Property	Typical Value (English)	Typical Value (SI)	Test Method		
Density	0.96 g/cm <sup>3</sup>	0,96 g/cm <sup>3</sup>	ASTM D 792		
Durometer Hardness, 3 sec (Shore A)	74.00	74,00	ASTM D 2240		
Tensile Strength at Break	1088 Psi	7,50 MPa	ASTM D412, Method A		
Mod.of Elasticity %100	406 Psi		ASTM D412, Method A		
Mod.of Elasticity %300	580 Psi	4,00 MPa	ASTM D412, Method A		
Elongation at break	750.00 %	750,00 %	ASTM D412, Method A		
Compression Set (at 73 °F, 22 h)	20.00 %	20,00 %	ASTM D 395, Type 2, Method B		
Compression Set (at 158 °F, 22 h)	41.00 %	41,00 %	ASTM D 395, Type 2, Method B		
Compression Set (at 212 °F, 22 h)	53.00 %	53,00 %	ASTM D 395, Type 2, Method B		
Tear Resistance	165.59 lbf/in	29,00 N/mm	ASTM D624		

Shrinkage					
Property	Typical Value (English)	Typical Value (SI)	Test Method		
Flow	1.00%	1.00%	ASTM D955		
Across Flow	0.95%		ASTM D955		
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Ageing Tests					
Typical Value (English)	Typical Value (SI)	Test Method			
No cracks	No cracks	ASTM D 1149			
Bondable to					
PE-PP-EVA					
	Typical Value (English) No cracks Bondable to	Typical Value (English) Typical Value (SI)   No cracks No cracks   Bondable to No cracks			

Elastron products are not compatible with PVC and Acetal. Regrinding level up to %20 is recommended with minimum property loss.

Injection Molding	Typical Value (English)		Typical Va	Typical Value (SI)	
Drying temperatures	194	°F	90	°C	
Drying time	2	hours	2	hours	
Rear Zone temp.	311-347	°F	155- 175	°C	
Middle Zone temp.	329-365	°F	165- 185	°C	
Front Zone temp.	338-374	°F	170- 190	°C	
Nozzle Temperature	356-410	°F	180- 210	°C	
njection Speed	High	-	High	-	
njection Time	1- 3	sec.	1-3	sec.	
Injection Pressure	10-40	bar	10-40	bar	
Hold Pressure	5- 20	bar	5- 20	bar	
Back Pressure	5- 40	bar	5- 40	bar	
Screw Speed	50- 200	rpm	50- 200	rpm	
Mold Temperature	77-122	°F	25- 50	°C	
Screw Comp. ratio	2.0:1- 4.0:1	-	2.0:1- 4.0:1	-	
Screw L/D ratio	18- 24	-	18- 24	-	
Residence time	1-2 shot	-	1-2 shot	-	
Cushion size	0.3120	inc	8	mm	
Suggested Max Regrind	20	%	20	%	

Extrusion Molding	Typical Value (English)		Extrusion Molding Typical Value (English) Typical Value (		′alue (SI)
Drying temperatures	-	°F	-	°C	
Drying time	-	hours	-	hours	
Screw Comp. Ratio	-	-	-	-	
Screw L/D	-	-	-	-	
Feed Zone temp.	-	°F	-	°C	
Rear Zone temp.	-	°F	-	°C	
Center Zone temp.	-	°F	-	°C	
Front Zone temp.	-	°F	-	°C	
Head temp.	-	°F	-	°C	
Die temp.	-	°F	-	°C	
Suggested Max Regrind	-	%	-	%	
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