

## V201.A59.B

A soft , black thermoplastic vulcanizate, TPV (EPDM/PP) in the thermoplastic elastomer (TPE) family which offers higher temperature resistance and good compression set with good UV resistance

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

### GM/GMW 15813P (TYPE 4E)

Touris al Malana (E a alfala)			
Typical Value (English)	Typical Value (SI)	Test Method	
0.97 g/cm³	0,97 g/cm <sup>3</sup>	ASTM D 792	
60.00	60,00	ASTM D 2240	
798 Psi	5,50 MPa	ASTM D412, Method A	
247 Psi	1,70 MPa	ASTM D412, Method A	
464 Psi	3,20 MPa	ASTM D412, Method A	
500.00 %	500,00 %	ASTM D412, Method A	
19.00 %	19,00 %	ASTM D 395, Type 2, Method B	
28.00 %	28,00 %	ASTM D 395, Type 2, Method B	
35.00 %	35,00 %	ASTM D 395, Type 2, Method B	
125.62 lbf/in	22,00 N/mm	ASTM D624	
	60.00 798 Psi 247 Psi 464 Psi 500.00 % 19.00 % 28.00 % 35.00 %	60.00 60,00   798 Psi 5,50 MPa   247 Psi 1,70 MPa   464 Psi 3,20 MPa   500.00 % 500,00 %   19.00 % 19,00 %   28.00 % 28,00 %   35.00 % 35,00 %	

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Property	Typical Value (English)	Typical Value (SI)	Test Method
Flow	2.30%	2.30%	ASTM D955
Across Flow	1.50%	1.50%	ASTM D955
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## elas ENGINEERING LIF

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Ageing Tests						
Additional Information	Typical Value (English)	Typical Value (SI)	Test Method			
Ozone Resistance-Stressed	No cracks	No cracks	ASTM D 1149			
Bondable to						
PE-PP-EVA						

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

Processing					
Injection Molding	Typical Val	ue (English)	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	
Injection Speed	High	-	High	-	
Injection 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 Val	ue (English)	Typical Value (SI)		
Drying temperatures	194	°F	90	°C	
Drying time	2	hours	2	hours	
Screw Comp. Ratio	2.0:1- 4.0:1	-	2.0:1- 4.0:1	-	
Screw L/D	18- 30	-	18- 30	-	
Feed Zone temp.	311-329	°F	155- 165	°C	
Rear Zone temp.	320-356	°F	160- 180	°C	
Center Zone temp.	329-365	°F	165- 185	°C	
Front Zone temp.	338-374	°F	170- 190	°C	
Head temp.	356-410	°F	180- 210	°C	
Die temp.	365-419	°F	185- 215	°C	
Suggested Max Regrind	20	%	20	%	
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### ISO 9001: 2015 & IATF16949: 2016 & ISO 14001: 2015 REGISTERED QUALITY SYSTEMS



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