



V206.D40.B

PRODUCT DESCRIPTION

A hard , black thermoplastic vulcanizate, TPV (EPDM/PP) in the thermoplastic elastomer (TPE) family designed for low coefficient of friction requirements

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

Physical Properties				
Property	Typical Value (English)	Typical Value (SI)	Test Method	
Density	0.90 g/cm³	0,90 g/cm ³	ASTM D 792	
Durometer Hardness, 3 sec (Shore D)	40.00	40,00	ASTM D 2240	
Tensile Strength at Break	2466 Psi	17,00 MPa	ASTM D412, Method A	
Mod.of Elasticity %100	1175 Psi	8,10 MPa	ASTM D412, Method A	
Mod.of Elasticity %300	1494 Psi	10,30 MPa	ASTM D412, Method A	
Elongation at break	700.00 %	700,00 %	ASTM D412, Method A	
Compression Set (at 73 °F, 22 h)	38.00 %	38,00 %	ASTM D 395, Type 2, Method B	
Compression Set (at 158 °F, 22 h)	55.00 %	55,00 %	ASTM D 395, Type 2, Method B	
Compression Set (at 212 °F, 22 h)	65.00 %	65,00 %	ASTM D 395, Type 2, Method B	
Tear Resistance	342.61 lbf/in	60,00 N/mm	ASTM D624	

Shrinkage					
Property	Typical Value (English)	Typical Value (SI)	Test Method		
Flow	1.98%		ASTM D955		
Across Flow	1.42%	1.42%	ASTM D955		

ELS.FR.C01.07 Rev.00004 Page 1/3





V206.D40.B

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

Additional Information

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 Value (SI)	
Drying temperatures	194	°F	90	°C
Orying time	2	hours	2	hours
Rear Zone temp.	311-347	°F	155- 175	°C
liddle Zone temp.	329-365	°F	165- 185	°C
ront Zone temp.	338-374	°F	170- 190	°C
lozzle Temperature	356-410	°F	180- 210	°C
njection Speed	High	-	High	-
njection Time	1- 3	sec.	1- 3	sec.
njection Pressure	10-40	bar	10-40	bar
lold Pressure	5- 20	bar	5- 20	bar
ack Pressure	5- 40	bar	5- 40	bar
crew Speed	50- 200	rpm	50- 200	rpm
lold Temperature	77-122	°F	25- 50	°C
crew Comp. ratio	2.0:1- 4.0:1	-	2.0:1- 4.0:1	-
crew L/D ratio	18- 24	-	18- 24	-
esidence time	1-2 shot	-	1-2 shot	-
ushion size	0.3120	inc	8	mm
uggested Max Regrind	20	%	20	%

Extrusion Molding	Typical Value (English)		Typical \	/alue (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	%

ELS.FR.C01.07 Rev.00004 Page 2/3



V206.D40.B

Notes

The company name, the brand, the logo and all kinds of visuals and writings in this document are the property of Elastron. It cannot be copied, distributed, modified or reproduced without the express written permission of Elastron. Independently, these documents can only be printed for personal use. However, in any case, the visuals and writings contained here cannot be used in another document or web page.

All the visuals, texts, information and explanations and the like in this document are for promotional purposes, giving information and providing convenience to the user. The values presented in this document apply only to the product mentioned above and cannot be extended to other products in general. Elastron is not responsible for the results that may arise from tests outside the control of Elastron. Although Elastron bases the information and suggestions contained herein on reliable data, it does not guarantee that such information and suggestions are correct and that the product is suitable for its intended use.

The user should know that Elastron must obtain the final information before taking any action by referring to the information and suggestions contained in this document.

Elastron reserves the right, at its discretion, to change or terminate the content of the document at any time and in any way.

ISO 9001: 2015 & IATF16949: 2016 & ISO 14001: 2015 REGISTERED QUALITY SYSTEMS









ELS.FR.C01.07 Rev.00004 Page 3 / 3