

PRODUCT DESCRIPTION

A hard , colorable SEBS based thermoplastic elastomer (TPE) compound designed for carpet backing application.

GENERAL PROPERTIES

Material Status	Active
Availability	Europe North America Asia- Pasific Africa & Middle East
Features	
Certification	RoHS
Appearance	Natural
Form	Pellets
Processing Method	Injection

Physical Properties

Property	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.11 g/cm³	1,11 g/cm³	ASTM D 792
Durometer Hardness, 3 sec (Shore A)	90.00	90,00	ASTM D 2240
Tensile Strength at Break	595 Psi	4,10 MPa	ASTM D412, Method A
Mod.of Elasticity %100	363 Psi	2,50 MPa	ASTM D412, Method A
Mod.of Elasticity %300	595 Psi	4,10 MPa	ASTM D412, Method A
Elongation at break	300.00 %	300,00 %	ASTM D412, Method A
Tear Resistance	182.72 lbf/in	32,00 N/mm	ASTM D624
pH	7.500 -	7,500 -	In- house
Water content	0.500 %	0,500 %	ASTM D6980

Shrinkage

Property	Typical Value (English)	Typical Value (SI)	Test Method
Flow			ASTM D955
Across Flow			ASTM D955

Ageing Tests

Additional Information	Typical Value (English)	Typical Value (SI)	Test Method
Ozone Resistance-Stressed			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.

Processing

Injection Molding	Typical Value (English)	Typical Value (SI)
Drying temperatures	- °F	- °C
Drying time	No need hours	No need hours
Rear Zone temp.	293-347 °F	145- 175 °C
Middle Zone temp.	311-365 °F	155- 185 °C
Front Zone temp.	320-374 °F	160- 190 °C
Nozzle Temperature	347-401 °F	175- 205 °C
Injection Speed	Low/ Mod -	Low/ Mod -
Injection Time	3- 5 sec.	3- 5 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	1.5:1- 2.0:1 -	1.5:1- 2.0:1 -
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)	Typical Value (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	- %	- %

Notes

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