Elastron® TPO T401.D51.B

Thermoplastic Polyolefin Elastomer

Elastron USA, Inc.

Message:

A hard, black thermoplastic polyolefin elastomer (TPO) material belongs to thermoplastic elastomer (TPE) family designed for general purpose applications.
Bondable to: PP, EVA, PE

General Information	
Features	Bondability General Purpose High Hardness
Uses	General Purpose
RoHS Compliance	RoHS Compliant
Appearance	Black
Forms	Pellets
Processing Method	Extrusion Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	1.5	%	
Across Flow	1.3	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	51		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ASTM D412
100% Strain	9.00	MPa	
300% Strain	12.5	MPa	
Tensile Strength (Break)	15.0	MPa	ASTM D412
Tensile Elongation (Break)	500	%	ASTM D412
Tear Strength	88.0	kN/m	ASTM D624
Flammability	**Nominal Value**		**Test Method**
Flame Rating	HB		UL 94
Additional Information	**Nominal Value**		**Test Method**
Ozone Resistance - Stressed	No Cracks		ASTM D518
Injection	**Nominal Value**	**Unit**	
Suggested Max Regrind	20	%	
Rear Temperature	155 to 175	°C	

Middle Temperature	165 to 185	°C
Front Temperature	175 to 195	°C
Nozzle Temperature	195 to 225	°C
Mold Temperature	25.0 to 50.0	°C

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	160 to 180	°C
Cylinder Zone 2 Temp.	165 to 185	°C
Cylinder Zone 3 Temp.	170 to 190	°C
Cylinder Zone 4 Temp.	185 to 205	°C
Cylinder Zone 5 Temp.	190 to 220	°C
Die Temperature	195 to 225	°C

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China