

Elastron® V TPV Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Vulcanizate Elastomer (TPV)

Material Notes:

Characteristics wide hardness range does not require vulcanisation - quite higher saving on the processing costs remains flexible at low temperatures high temperature resistance electrical insulator with very low conductivity has grades with very low conductivity has grades with very low compression set grades with very high abrasion resistance excellent tear resistance 100% recyclable PVC free resistance to solvents resistance to oil resistance to acids, bases, and detergents resistance to UV and ozone resistance to bacterial and fungus growth has low toxic potential, with many grades conforming with FDA regulations halogen free flame retardancy coloured grades available allows direct colouring during processing by utilizing coloured PP and PE masterbatches 2-shot moulding onto many other plastics appropriate co-extrusion process

Order this product through the following link:

http://www.lookpolymers.com/polymer_Elastron-V-TPV-Elastomer.php

Physical Properties	Metric	English	Comments
Density	>= 0.900 g/cc	>= 0.0325 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	65	65	
Hardness, Shore D	30	30	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	140 °C	284 °F	
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	
Shrinkage	1.0 - 3.0 %	1.0 - 3.0 %	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	170 - 200 °C	338 - 392 °F	
Middle Barrel Temperature	170 - 200 °C	338 - 392 °F	
Front Barrel Temperature	170 - 200 °C	338 - 392 °F	
Die Temperature	180 - 200 °C	356 - 392 °F	
Mold Temperature	30.0 - 60.0 °C	86.0 - 140 °F	

Descriptive Properties	Value	Comments
Acid-Base Resistance	excellent	

Descriptive Properties	Value	Comments
Compression Set	very good	
Draw Down	5-10	
Drying	necessary	
Injection Speed	medium-fast	
L/D Ratio	20 - 24:1	
Motor Oil Resistance	good	
Solvent Resistance	good	
UV-Ozone Stability	excellent	

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