

Dryflex® 51395 V

Thermoplastic Vulcanizate

ELASTO

Message:

Dryflex 51395 V: Thermoplastic Elastomer

Base Material: TPV

Hardness: 50 Shore D

Service Temperature: -50°C to +135°C

Colour: Black, but available in any colour shade

Presentation: Free flowing pellets. May require pre-drying before processing.

Weather Resistance: Excellent

Ozone-/UV- Resistance: Excellent

Chemical Resistance: Excellent

Recycling: 100% recyclable

Mould Shrinkage (linear): Approx. 0.75 - 2% depending on e.g. shape of the detail and placement of gate

General Information			
Features	Good Chemical Resistance		
	Good Processability		
	Good UV Resistance		
	Good Weather Resistance		
	Ozone Resistant		
	Recyclable Material		
Appearance	Black		
	Colors Available		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm ³	ISO 2781
Molding Shrinkage ¹	0.75 to 2.0	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	50		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
Across Flow : 100% Strain	10.8	MPa	
Flow : 100% Strain	12.6	MPa	
Tensile Stress			ISO 37
Across Flow : Yield	22.0	MPa	
Flow : Yield	16.0	MPa	

Tensile Elongation		ISO 37
Across Flow : Break	800	%
Flow : Break	550	%
Tear Strength ²		ISO 34-1
Across Flow	110	kN/m
Flow	120	kN/m
Compression Set ³		ISO 815
23°C, 24 hr	54	%
70°C, 24 hr	57	%
Thermal	Nominal Value	Unit
Service Temperature	-50 to 135	°C
Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 to 4.0	hr
Rear Temperature	180 to 220	°C
Middle Temperature	180 to 220	°C
Front Temperature	180 to 220	°C
Mold Temperature	15.0 to 50.0	°C
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	200 to 220	°C
Cylinder Zone 2 Temp.	200 to 220	°C
Cylinder Zone 3 Temp.	200 to 220	°C
Cylinder Zone 4 Temp.	200 to 220	°C
Cylinder Zone 5 Temp.	200 to 220	°C
NOTE		
1.	Depending on shape of the detail and placement of gate	
2.	Method C, Crescent	
3.	Type B	

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