Globalene® TPV 1055A BK

Thermoplastic Vulcanizate

Lee Chang Yung Chemical Industry Corp.

Message:

A medium hardness, multi-purpose thermoplastic elastomer featuring excellent compression set and high temperature performance. Globalene® TPV 1055A BK can be processed by extrusion or molding for applications such as weatherstrip profile, seals, window gaskets and other soft touch articles.
Attributes:
Globalene® TPV is a fully vulcanized Thermoplastic Elastomers containing EPDM and PP.
It is designed for applications requiring long term sealing performance at elevated temperatures.
Suitable for injection molding, profile extrusion or re-compounding for plastics modification.
Conventional thermoplastic processing equipment can be used.
Applications:
Globalene® TPV has quality sealing property, good chemical and weathering resistance and electrical property that is suitable to replace main stream TPV, thermoset EPDM rubber, Styrene based TPEs, flexible PVC and other TPEs. It is an excellent choice for applications requiring flexibility in the following markets: automotive parts, appliance, business machines, construction, consumer products, and electronics.

General Information	
Features	Vulcanable
	Good electrical performance
	Good flexibility
	Ozone resistance
	Good chemical resistance
	Good weather resistance
	Heat resistance, high
	Medium hardness
Uses	Electrical/Electronic Applications
	Electrical appliances
	Washer
	Composite
	Architectural application field
	Seals
	Weather-resistant sealing strip
	Application in Automobile Field
	Soft touch application
	Business equipment
	Plastic modification
	Consumer goods application field
Forms	Particle
Processing Method	Composite
	Extrusion
	Profile extrusion molding

Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.958	g/cm³	ISO 1183
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 15 sec, Injection Molded)	58		ISO 868
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [1] (100% Strain, 23°C)	2.60	MPa	ISO 37
Tensile Stress [2] (Break, 23°C)	5.10	MPa	ISO 37
Tensile Elongation [3] (Break, 23°C)	380	%	ISO 37
Tear Strength [4] (23°C)	15	kN/m	ISO 34-1
Compression Set			ISO 815
70°C, 22 hr	30	%	ISO 815
125°C, 70 hr	45	%	ISO 815
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	-65.0	°C	ISO 812
Melting Temperature	150	°C	Internal method
Additional Information	**Nominal Value**		**Test Method**
Ozone Resistance - 500 hr, 100 pphm O3 conc.	Excellent		ASTM D1149
Extruder Screw L/D Ratio	>24.0:1.0		
Extruder Screw Compression Ratio	3.0:1.0		
Injection	**Nominal Value**	**Unit**	
Drying Temperature	80.0 - 90.0	°C	
Drying Time	3.0 - 4.0	hr	
Rear Temperature	180 - 190	°C	
Middle Temperature	200 - 220	°C	
Front Temperature	200 - 220	°C	
Nozzle Temperature	200 - 220	°C	
Processing (Melt) Temp	200 - 220	°C	
Mold Temperature	30.0 - 55.0	°C	
Injection Pressure	4.80 - 6.90	MPa	
Holding Pressure	2.10 - 4.10	MPa	
Back Pressure	0.0689 - 1.03	MPa	
Screw Speed	100 - 200	rpm	
Vent Depth	0.025	mm	
Injection instructions			
Holding Time: 4-10 seconds Cooling Time: 15-30 seconds			
Extrusion	**Nominal Value**	**Unit**	
Drying Temperature	80.0 - 90.0	°C	
Drying Time	3.0 - 4.0	hr	

Cylinder Zone 1 Temp.	180	°C
Cylinder Zone 2 Temp.	190	°C
Cylinder Zone 3 Temp.	200	°C
Cylinder Zone 4 Temp.	210	°C
Cylinder Zone 5 Temp.	210	°C
Melt Temperature	180 - 220	°C
Die Temperature	210 - 220	°C
Take-Off Roll	20.0 - 50.0	°C

Extrusion instructions
Screen Pack: 20 to 60 mesh

NOTE	
1.	500 mm/min
2.	500 mm/min
3.	500 mm/min
4.	500 mm/min

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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