

ENFLEX VU-420-55A

Thermoplastic Vulcanizate

ENPLAST, a Ravago Group Company

Message:

ENFLEX VU-420-55A is a thermoplastic vulcanized rubber (TPV) product. It can be processed by extrusion or injection molding and is available in North America or Europe. The main characteristics are: good UV resistance.

General Information			
Features	Good UV resistance		
	Ozone resistance		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Density	0.980	g/cm ³	ISO 1183

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	55		ISO 868

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
100% strain	1.40	MPa	ISO 37
300% strain	2.70	MPa	ISO 37
Tensile Stress (Break)	5.10	MPa	ISO 37
Tensile Elongation (Break)	500	%	ISO 37
Compression Set			ASTM D395B
23°C, 72 hr	20	%	ASTM D395B
70°C, 22 hr	36	%	ASTM D395B
100°C, 22 hr	46	%	ASTM D395B

Additional Information			
The value listed as Density, ISO 1183, was tested in accordance with ISO 2781.Tear Strength, ISO 34-2: 21 kN/mOzone Resistance, ISO 1431: No Crack			
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	2.0	hr	
Rear Temperature	170 - 180	°C	
Front Temperature	190 - 200	°C	
Nozzle Temperature	200 - 210	°C	
Processing (Melt) Temp	210 - 220	°C	
Mold Temperature	10.0 - 50.0	°C	
Screw L/D Ratio	20.0:1.0		

Screw Compression Ratio	2.5:1.0	
Extrusion	Nominal Value	Unit
Drying Temperature	90.0	°C
Drying Time	3.0	hr
Cylinder Zone 1 Temp.	170	°C
Cylinder Zone 2 Temp.	180	°C
Cylinder Zone 3 Temp.	190	°C
Cylinder Zone 4 Temp.	195	°C
Cylinder Zone 5 Temp.	200	°C
Extrusion instructions		

Machine Capacity, 30 mm cylinder diameter: 15 to 20 kg/hrMachine Capacity, 45 mm cylinder diameter: 60 to 85 kg/hrMachine Capacity, 60 mm cylinder diameter: 100 to 150 kg/hrMachine Capacity, 90 mm cylinder diameter: 225 to 300 kg/hr

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