



ENFLEX® VU-424-45A

Ravago Manufacturing Turkey - Thermoplastic Vulcanizate

General Information

Product Description

Economical, extrusion & injection, fully vulcanized EPDM/PP series

Additive Packages :

T / Heat and UV stabilizer

Key Features :

Rubberlike elasticity

Ease of coloring by proper MB (PE,PP,etc. based)

Low compression set

Easy of processing

Recyclability

General

Material Status	• Commercial: Active		
Availability	• Europe		
Additive	• Heat Stabilizer	• UV Stabilizer	
Features	• Chemical Resistant	• Heat Stabilized	• Recyclable Material
	• Good Colorability	• High Elasticity	• UV Stabilized
	• Good Processability	• Low Compression Set	
Processing Method	• Extrusion	• Injection Molding	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.970	g/cm ³	ISO 2781
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	1.50	MPa	ISO 37
Tensile Stress (300% Strain)	2.50	MPa	ISO 37
Tensile Stress (Break)	5.70	MPa	ISO 37
Tensile Elongation (Break)	630	%	ISO 37
Tear Strength - Across Flow	28.0	kN/m	ISO 34-1
Compression Set			ASTM D395B
-25°C, 22 hr	69	%	
23°C, 72 hr	16	%	
70°C, 22 hr	28	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 3 sec)	45		ISO 868
Thermal	Nominal Value	Unit	
Brittleness Temperature	-45.0	°C	
Service Temperature			
Dynamic	110	°C	
Static	135	°C	

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Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (100°C, 168 hr)	1.8	%	ISO 188
Change in Tensile Strain at Break in Air 100°C, 168 hr	610	%	ISO 188
Change in Shore Hardness in Air			ISO 188
Shore A, -10°C, 22 hr	-3.0		
Shore A, 100°C, 168 hr	-3.0		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	80 to 90	°C
Drying Time	2.0	hr
Hopper Temperature	170 to 180	°C
Middle Temperature	180 to 190	°C
Front Temperature	190 to 200	°C
Nozzle Temperature	200 to 210	°C
Processing (Melt) Temp	210 to 220	°C
Mold Temperature	10 to 50	°C

Injection Notes

Max Allowable Melt Temperature: 250°C

Notes

¹ Typical properties: these are not to be construed as specifications.