

# ENFLEX VU-420-50A

## ENFLEX-V



<b>Product Description :</b>	This polyolefin based thermoplastic elastomer (TPE-V) compound is a dynamically vulcanized EPDM/PP blend with improved flow behaviour. ENFLEX® series are completely recyclable and can be processed with conventional thermoplastics machinery
<b>Additive Packages :</b>	T / Heat and UV stabilizer
<b>Key Features :</b>	Excellent ozone, UV and weathering resistance Rubberlike elasticity in a wide temperature range Low compression set Easy processing Colorable with proper MB (PE, PP, etc. based)
<b>Process Method :</b>	Extrusion, coextrusion, blow molding, sheet extrusion, injection/multi injection molding
<b>Uses :</b>	Automotive, construction, home appliances, wire&cable, industrial applications
<b>Revision Date :</b>	01.06.2013

	Value	Unit	Standard
<b>Physical</b>			
Hardness	50	SHORE A	ISO 868 (3 second )
Density	0,98	gr / cm3	ISO 1183 1-A
Brittleness Point	-45	°C	*
<b>Mechanical</b>			
100% Modulus	1,5	Mpa	ISO 37, DIN 53504
300% Modulus	2,8	Mpa	ISO 37, DIN 53504
Tensile Strength At Break	6	Mpa	ISO 37, DIN 53504
Elongation at Break	520	%	ISO 37, DIN 53504
Tear Strength (Perpendicular to flow)	26	kN/m	ISO 34-1
<b>Aging</b>			
Compression Set (72h/23°C)	21	%	ASTM D 395-89-B
Compression Set (22h/70°C)	25	%	ASTM D 395-89-B
Compression Set (22h/100°C)	32	%	ASTM D 395-89-B
<b>Thermal</b>			
Max. Dynamic Service Temperature	110	°C	*
Max. Static Service Temperature	135	°C	*

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### Environmental Resistance

Ozone	Excellent
Water	Excellent
Alcohol	Excellent
Olive Oil	Fair
Sulphuric Acid	Good
Detergent	Good

### Drying Condition

Drying Time(hr)	2
Drying Temperature(°C)	80-90

### Molding Condition (°C)

1st Zone (hopper)(°C)	170-180
2nd Zone(°C)	180-190
3rd Zone(°C)	190-200
Nozzle(°C)	200-210
Melt Temperature(°C)	210-220
Mold Temperature(°C)	10-50
Max Allowable Melt Temperature(°C)	250 C

### Extrusion Condition (°C)

Feed Zone Temperature (°C)	170 - 190
Compression Zone Temperature (°C)	180 - 195
Melting Zone Temperature (°C)	195 - 205
Extruder Head Temperature (°C)	200 - 210
Die Temperature (°C)	200 - 220

### Important Notice;

The above results are obtained from the tests conducted in Enplast laboratories on injection molded ISO samples and cannot be used directly to determine end-use or design specification. Datasheet values represent a statistical average of product properties and they may be subject to change as new information becomes available. Customers and other users should make their own independent determination that the product is suitable for the intended use. ENPLAST accepts no responsibility for results obtained by the application of this information and disclaims all warranties that might arise in connection with this information.

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