ENFLEX® VU-420-70A

Ravago Manufacturing Turkey - Thermoplastic Vulcanizate

General Information

Product Description

This polyolefin based thermoplastic elastomer (TPE-V) compound is a dynamically vulcanized EPDM/PP blend with improved flow behaviour. ENFLEX® series are competely recyclable and can be processed with conventional thermoplastics machinery

Additive Packages :
T / Heat and UV stabilizer

Key Features :
Excellent ozone, UV and weathering resistance
Rubberlike elasticity in a wide temperature range
Low compression set
Easy processing
Easy colorability with proper MB (PE, PP, etc.)

Process Method :
Extrusion, coextrusion, blow molding, sheet extrusion, injectionj/multi injection molding

Uses :
Automotive, construction, home appliances, wire&cable, industrial applications

General

Material Status	• Commercial: Active		
Availability	• Europe		
Additive	• Heat Stabilizer	• UV Stabilizer	
Features	• Chemical Resistant • Good Colorability • Good Flow • Good Processability	• Good Weather Resistance • Heat Stabilized • High Elasticity • Low Compression Set	• Ozone Resistant • Recyclable Material • UV Resistant • UV Stabilized
Uses	• Appliances • Automotive Applications	• Construction Applications • Industrial Applications	• Wire & Cable Applications
Processing Method	• Blow Molding • Coextrusion	• Extrusion • Injection Molding	• Multi Injection Molding • Sheet Extrusion

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.970	g/cm³	ISO 1183/A

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Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	2.80	MPa	ISO 37
Tensile Stress (300% Strain)	4.30	MPa	ISO 37
Tensile Stress (Break)	8.20	MPa	ISO 37
Tensile Elongation (Break)	610	%	ISO 37
Tear Strength - Across Flow	47.0	kN/m	ISO 34-1
Compression Set			ASTM D395B
23°C, 72 hr	31	%	
70°C, 22 hr	37	%	
100°C, 22 hr	45	%	

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 3 sec)	70		ISO 868

Thermal	Nominal Value	Unit
Brittleness Temperature	-45.0	°C
Service Temperature		
Dynamic	110	°C
Static	135	°C

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

Extrusion	Nominal Value	Unit
Drying Temperature	80 to 90	°C
Drying Time	2.0	hr
Cylinder Zone 1 Temp.	170 to 190	°C
Cylinder Zone 3 Temp.	180 to 195	°C
Cylinder Zone 5 Temp.	195 to 205	°C
Adapter Temperature	200 to 210	°C
Die Temperature	200 to 220	°C

Notes

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