



EZPRENE® VU-320-85A

Ravago Manufacturing Turkey - Thermoplastic Vulcanizate

General Information

Product Description

This polyolefin based non-hygroscopic thermoplastic elastomer (TPE-V) compound is a high performance, dynamically vulcanized EPDM/PP blend with improved flow behaviour. EZPRENE® series are completely recyclable and can be processed with conventional thermoplastics machinery

Additive Packages :

T / Heat and UV stabilizer

Key Features :

Non hygroscopic, no pre-drying

Excellent ozone, UV and weathering resistance

Rubberlike elasticity in a wide temperature range and low compression set

Easy processing, faster cycle time over conventional TPVs

Easy colorability with proper MB (PE, PP)

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	<ul style="list-style-type: none"> • Chemical Resistant • Fast Molding Cycle • Good Colorability • Good Flow • Good Processability 	<ul style="list-style-type: none"> • Good Weather Resistance • Heat Stabilized • High Elasticity • Low Compression Set • Low to No Water Absorption 	<ul style="list-style-type: none"> • Ozone Resistant • Recyclable Material • UV Resistant • UV Stabilized
Uses	<ul style="list-style-type: none"> • Appliances • Automotive Applications 	<ul style="list-style-type: none"> • Construction Applications • Industrial Applications 	<ul style="list-style-type: none"> • Wire & Cable Applications
Processing Method	<ul style="list-style-type: none"> • Blow Molding • Coextrusion 	<ul style="list-style-type: none"> • Extrusion • Injection Molding 	<ul style="list-style-type: none"> • Multi Injection Molding • Sheet Extrusion

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.970	g/cm ³	ISO 1183/A

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Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	5.40	MPa	ISO 37
Tensile Stress (300% Strain)	6.70	MPa	ISO 37
Tensile Stress (Break)	11.3	MPa	ISO 37
Tensile Elongation (Break)	650	%	ISO 37
Tear Strength - Across Flow	65.0	kN/m	ISO 34-1
Compression Set			ASTM D395B
23°C, 72 hr	41	%	
70°C, 22 hr	47	%	

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 3 sec)	85		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
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
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.