



ENFLEX® VO-584-90A

Ravago Manufacturing Turkey - Thermoplastic Vulcanizate

General Information

Product Description

This polyolefin based dynamically vulcanized TPE-V compound is flame retardant and dio1ine free. ENFLEX® series are completely recyclable and can be processed with conventional thermoplastics machinery

Additive Packages :

V / Heat stabilizer and Flame Retardant

Key Features :

V0 at 1,6 mm according to UL94 (internally tested)

Excellent ozone, UV and weathering resistance

Rubberlike elasticity in a wide temperature range

Colorable with proper MB (PE, PP, etc. based)

Process Method :

Extrusion, coextrusion, sheet extrusion, injection/multi injection molding

Uses :

Automotive, construction, electrical&electronics, wire&cable, industrial applications

General

Material Status	• Commercial: Active		
Availability	• Europe		
Additive	• Flame Retardant	• Heat Stabilizer	
Features	• Chemical Resistant • Flame Retardant • Good Colorability	• Good Weather Resistance • Heat Stabilized • High Elasticity	• Ozone Resistant • Recyclable Material • UV Resistant
Uses	• Automotive Applications • Construction Applications	• Electrical/Electronic Applications • Industrial Applications	• Wire & Cable Applications
Processing Method	• Coextrusion • Extrusion	• Injection Molding • Multi Injection Molding	• Sheet Extrusion

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183/A
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	5.00	MPa	ISO 37
Tensile Stress (300% Strain)	6.20	MPa	ISO 37
Tensile Stress (Break)	10.0	MPa	ISO 37
Tensile Elongation (Break)	550	%	ISO 37
Tear Strength - Across Flow	52.0	kN/m	ISO 34-1
Compression Set			ASTM D395B
23°C, 72 hr	30	%	
70°C, 22 hr	45	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 3 sec)	90		ISO 868

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Thermal	Nominal Value	Unit	
Brittleness Temperature	-55.0	°C	
Service Temperature			
Dynamic	110	°C	
Static	135	°C	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.6 mm)	V-0		Internal Method

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.