EZPRENE® 65A-400BSHF

Ravago Manufacturing Turkey - Thermoplastic Vulcanizate

General Information

Product Description

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

Additive Packages :
S / Antiscratch
H / Heat stabilizer

Key Features :
Non hygroscopic, no pre-drying
Excellent ozone, UV and weathering resistance
Rubberlike elasticity in a wide temperature range
Super high flow for difficult injection molding applications
Easy colorability with proper MB (PE, PP, etc. based)

Process Method :
Injection/multi injection molding

Uses :
Automotive: Glass encapsulation and thin-walled complex parts

General			
Material Status	• Commercial: Active		
Availability	• Europe		
Additive	• Heat Stabilizer		
Features	• Chemical Resistant • Good Colorability • Good Scratch Resistance • Good Weather Resistance	• Heat Stabilized • High Elasticity • High Flow • Low to No Water Absorption	• Ozone Resistant • Recyclable Material • UV Resistant
Uses	• Automotive Applications	• Encapsulant	• Thin-walled Parts
Processing Method	• Injection Molding	• Multi Injection Molding	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm³	ISO 1183/A
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (100% Strain)	1.90	MPa	ISO 37
Tensile Stress (300% Strain)	2.90	MPa	ISO 37
Tensile Stress (Break)	5.80	MPa	ISO 37
Tensile Elongation (Break)	600	%	ISO 37
Tear Strength - Across Flow	30.0	kN/m	ISO 34-1
Compression Set			ASTM D395B
23°C, 72 hr	27	%	
70°C, 22 hr	39	%	
100°C, 22 hr	51	%	

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Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 3 sec)	65		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

Notes

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