

EZPRENE VL-321-65A-T4-000

EZPRENE-V

MATIÈRES SOUPLES
FLEXIBLE MATERIALS



089-N750b1

<http://evaluation.cstb.fr>



Product Description :	Ezprene series based non-hygroscopic thermoplastic elastomer (TPE-V) compound is a 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 and low compression set Easy processing, faster cycle time over conventional TPVs Easy colorability with proper MB (PE, PP, etc. Based) Working temperature range : Grade 4 [-25 C; 100] Working temperature range : Grade 5 [-25 C; 70] This compound is QB36 certified.
Process Method :	Extrusion, coextrusion, blow molding, sheet extrusion, injection/multi injection molding
Uses :	Automotive, construction, home appliances, wire&cable, industrial applications

	Value	Unit	Standard
Physical			
Density	0,97±0,03	gr / cm3	ISO 1183 1-A
Brittleness Temperature	-45	°C	ASTM D746
b*	+4,96	*	Illuminant D65
a*	-1,47	*	Illuminant D65
L*	87,43	*	Observer 10 °
Mechanical			
100% Modulus	2,3	Mpa	ISO 37, DIN 53504
300% Modulus	4,3	Mpa	ISO 37, DIN 53504
Tensile Strength At Break	8	Mpa	ISO 37, DIN 53504
Elongation at Break	>650	%	ISO 37, DIN 53504



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Tear Strength (Perpendicular to flow)	40	N/mm	ISO 34-1
Compression Set (22h/70°C)(sample with 3 strip layers)	29±5	%	QB36 Method
Compression Set (22h/100°C)(sample with 3 strip layers)	48±5	%	QB36 Method
Hardness	63±5	SHORE A	ISO 48-4 (15 second)

Thermal

Max. Dynamic Service Temperature	100	°C	*
Max. Static Service Temperature	120	°C	*

Visual Test

Colour Measurement	≤<3,5	Delta E	CIE L.a.b
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Resistance

Ozone	Excellent
Water	Excellent
Alcohol	Excellent
Olive Oil	Fair
Sulphuric Acid	Good
Detergent	Good
Drying Time(hr)	Not required
Drying Temperature(C)	Not required

Molding Condition

Barrel Rear	150-160
Barrel Center	155-165
Barrel Front	165-175
Nozzle	170-175
Melt Temperature	170-180
Mould Temperature	10-50
Max Allowable Melt Temperature	220 C

Extrusion Condition (°C)

Feed Zone Temperature (°C)	145 - 150
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Compression Zone Temperature (°C)	145 - 155
Melting Zone Temperature (°C)	155 - 160
Extruder Head Temperature (°C)	155 - 165
Die Temperature (°C)	160 - 165

