

EZPRENE VL-321-65A-T4-000-C

EZPRENE-V

MATIÈRES SOUPLES
FLEXIBLE MATERIALS



089-R750b
<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
Hardness(stack of 3 profile)	63±5	SHORE A	ISO 48-4 (15 second)
Mechanical			
100% Modulus	2,3	Mpa	ISO 37(S1,500 mm/min)
300% Modulus	4,3	Mpa	ISO 37(S1,500 mm/min)
Tensile Strength At Break	8	Mpa	ISO 37(S1,500 mm/min)
Elongation at Break	>650	%	ISO 37(S1,500 mm/min)
Tear Strength (Perpendicular to flow)	35	N/mm	ISO 34-1 Method B
Compression Set (24h/70°C)(25%)stack of 3 profile)	35±5	%	ISO 815-1
Compression Set (24h/100°C)(25%)stack of 3 profile	43±5	%	ISO 815-1
100%Modulus from extruded profile	1,9	Mpa	ISO 37(200mm/min)
Tensile Strength at break from extruded profile	7,5	Mpa	ISO 37(200mm/min)



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Elongation at break from extruded profile	>650	%	ISO 37(200mm/min)
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Other

L*(2 mm profile)	87,91	*	CIE1976
a*(2 mm profile)	-0,96	*	CIE1976
b*(2 mm profile)	+3,83	*	CIE1976
Colour Measurement(2 mm profile)	=<3,5	Delta E*ab	CIE1976

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	180-190
Barrel Center	185-195
Barrel Front	195-205
Nozzle	200-205
Melt Temperature	200-210
Mould Temperature	10-50
Max Allowable Melt Temperature	220 C

Extrusion Condition (°C)

Feed Zone Temperature (°C)	175 - 180
Compression Zone Temperature (°C)	175 - 185
Melting Zone Temperature (°C)	185 - 190
Extruder Head Temperature (°C)	185 - 195
Die Temperature (°C)	190 - 195



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