



EZPRENE VL-321-55A

EZPRENE-V

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|------------------------------|---|
| Product Description : | This polyolefin 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 machiner |
| 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) |
| 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 | | | |
| Hardness | 55 | SHORE A | ISO 868 (3 second) |
| Density | 0,95 | gr / cm3 | ISO 1183 1-A |
| Brittleness Point | -45 | °C | * |
| Mechanical | | | |
| 100% Modulus | 1,7 | Mpa | ISO 37, DIN 53504 |
| 300% Modulus | 3,1 | Mpa | ISO 37, DIN 53504 |
| Tensile Strength At Break | 7,0 | Mpa | ISO 37, DIN 53504 |
| Elongation at Break | 650 | % | ISO 37, DIN 53504 |
| Tear Strength (Perpendicular to flow) | 33 | kN/m | ISO 34-1 |
| Aging | | | |
| Compression Set (72h/23°C) | 18 | % | ASTM D 395-89-B |
| Compression Set (22h/70°C) | 23 | % | ASTM D 395-89-B |
| Compression Set (22h/100°C) | 33 | % | ASTM D 395-89-B |





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Thermal

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

Resistance

| | |
|-----------------------|--------------|
| Ozone | Excellent |
| Water | Excellent |
| Alcohol | Excellent |
| Olive Oil | Fair |
| Sulphuric Acid | Good |
| Detergent | Good |
| Drying Condition | |
| 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 |
| Compression Zone Temperature (°C) | 145 - 155 |
| Melting Zone Temperature (°C) | 155 - 160 |
| Extruder Head Temperature (°C) | 155 - 165 |
| Die Temperature (°C) | 160 - 165 |

