



ENFLEX VL-120-35D

ENFLEX-V

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|------------------------------|--|
| Product Description : | This polyolefin based thermoplastic elastomer (TPE-V) compound is a high performance, dynamically vulcanized EPDM/PP blend. ENFLEX® series are completely recyclable and can be processed with conventional thermoplastics machinery |
| Additive Packages : | T / Heat and UV stabilizer / |
| Key Features : | Excellent ozone, UV and weathering resistance Low compression set and rubberlike elasticity in a wide temperature range Colorable with proper MB (PE, PP, etc. based) |
| Process Method : | Extrusion, coextrusion, blow molding, injection molding |
| Uses : | Automotive, construction, home appliances, wire&cable, industrial applications |

| | Value | Unit | Standard |
|----------------------------------|-----------|----------|---------------------|
| Physical | | | |
| Hardness | 35 | SHORE D | ISO 868 (3 second) |
| Density | 0,95 | gr / cm3 | ISO 1183 1-A |
| Brittleness Point | -45 | °C | * |
| Mechanical | | | |
| 100% Modulus | 7,20 | Mpa | ISO 37, DIN 53504 |
| 300% Modulus | 8,70 | Mpa | ISO 37, DIN 53504 |
| Tensile Strength At Break | 13,8 | Mpa | ISO 37, DIN 53504 |
| Elongation at Break | 641 | % | ISO 37, DIN 53504 |
| Thermal | | | |
| Max. Dynamic Service Temperature | 125 | °C | * |
| Max. Static Service Temperature | 135 | °C | * |
| Environmental Resistance | | | |
| Ozone | Excellent | | |
| Water | Excellent | | |
| Alcohol | Excellent | | |





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| | |
|----------------|------|
| Olive Oil | Fair |
| Sulphuric Acid | Good |
| Detergent | Good |

Drying Condition

| | |
|------------------------|-------|
| Drying Time(hr) | 2 |
| Drying Temperature(°C) | 80-90 |

Molding Condition (°C)

| | |
|------------------------------------|---------|
| 1st Zone (hopper)(°C) | 170-180 |
| 2nd Zone(°C) | 180-190 |
| 3rd Zone(°C) | 190-200 |
| Nozzle(°C) | 200-210 |
| Melt Temperature(°C) | 210-220 |
| Mold Temperature(°C) | 10-50 |
| Max Allowable Melt Temperature(°C) | 250 C |

Extrusion Condition (°C)

| | |
|-----------------------------------|-----------|
| Feed Zone Temperature (°C) | 170 - 190 |
| Compression Zone Temperature (°C) | 180 - 195 |
| Melting Zone Temperature (°C) | 195 - 205 |
| Extruder Head Temperature (°C) | 200 - 210 |
| Die Temperature (°C) | 200 - 220 |

