



ENFLEX VU-420-45D

ENFLEX-V

Product Description : This polyolefin based thermoplastic elastomer (TPE-V) compound is a dynamically vulcanized EPDM/PP blend with improved flow behaviour. ENFLEX® series are completely recyclable and can be processed with conventional thermoplastics machinery

Additive Packages : T / Heat and UV stabilizer
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Key Features : Excellent ozone, UV and weathering resistance
Rubberlike elasticity in a wide temperature range
Easy processing
Colorable with proper MB (PE, PP, etc. based)

Process Method : Extrusion, coextrusion, blow molding, sheet extrusion, injection/multi injection molding

Uses : Automotive, construction, home appliances, industrial applications

| | Value | Unit | Standard |
|---------------------------------------|-------|----------|-----------------------|
| Physical | | | |
| Hardness | 45 | SHORE D | ISO 868 (3 second) |
| Density | 0,97 | gr / cm3 | ISO 1183 1-A |
| Mechanical | | | |
| 100% Modulus | 9,1 | Mpa | ISO 37(S1,500 mm/min) |
| 300% Modulus | 9,9 | Mpa | ISO 37(S1,500 mm/min) |
| Tensile Strength At Break | 16,7 | Mpa | ISO 37(S1,500 mm/min) |
| Elongation at Break | 650 | % | ISO 37(S1,500 mm/min) |
| Tear Strength (Perpendicular to flow) | 75 | N/mm | ISO 34-1 Method B |

Environmental Resistance

| | |
|----------------|-----------|
| Ozone | Excellent |
| Water | Excellent |
| Alcohol | Excellent |
| Olive Oil | Fair |
| Sulphuric Acid | Good |
| Detergent | Good |



Ravago Petrokimya Uretim A.S.



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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 |

