

EDS

Engineering,
GM DAEWOO Auto & Technology
Standards

POLYPROPYLENE/VULCANIZED EPDM RUBBER BLEND-SHORE A 35

EDS-M-4620

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VERSION: 2

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1. SCOPE

This specification defines general requirements for raw materials of polypropylene/vulcanized EPDM rubber blend-shore A 35 that applied to interior or exterior parts of a vehicle.

2. MATERIAL INDICATION

Material indication: >TPV-(EPDM+PP)<

Detailed contents shall conform to the indication method of synthetic resin materials for vehicles.(Spec. No: **GMW3116**)

3. APPLICATION

Vulcanized EPDM 60% blend raw materials having better compression set, oil resistance and tensile strength than non-vulcanized EPDM blend.

4. REQUIREMENTS

4.1. Mechanical properties

		Type 1
Shore A hardness		
EDS-T-7403		35±2
Tensile strength(kg/cm ²)	Test piece(6×2 mm)	
EDS-T-7511	Test speed(500 mm/min)	40
Elongation(%)	Test piece(6×2 mm)	
EDS-T-7511	Test speed(500 mm/min)	500
Tear strength(kg/cm ²)	Test piece(102×12.7×2 mm, angle 90 °)	
EDS-T-7521	Test speed(500 mm/min)	10
Compression set(%)	Test piece:	
EDS-T-7424	12.5 mm(thickness), 29 mm(diameter)	
	Test condition:	
	25% compression ratio: 23°C×168hrs	12
	10% compression ratio: 100°C×70hrs	40

4.2. General properties

Density(g/cm ³)	
EDS-T-7406	0.93±0.01

Note) All the physical property values above indicate minimum values except having specified ranges. (But, compression sets indicates maximum value.)