

EDS

Engineering,
GM DAEWOO Auto & Technology
Standards

30% GLASS FIBER REINFORCED POLYPROPYLENE

EDS-M-4252

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VERSION: 9

1. SCOPE

This specification defines general requirements for raw materials of 30% glass fiber reinforced polypropylene applied to interior and exterior parts of a vehicle.

2. MATERIAL INDICATION

Material indication: >PP-GF30<

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

3. APPLICATION

3.1. Group 1: Glass fiber reinforced raw materials, which have especially excellent heat resistance and dimensional stability and use high crystalline PP as the base.

3.2. Group 2: Glass fiber reinforced raw materials, which have especially excellent heat resistance and dimensional stability and use PP-Copolymer as the base.

3.3. Group 3: Glass fiber reinforced raw materials, which have especially excellent heat resistance and dimensional stability and use PP-Homopolymer as the base.

Ex) Instrument panel core, tooth belt cover.

3.4. Group 4: Glass fiber and PTFE (Teflon) reinforced raw materials, which have especially excellent heat resistance, dimensional stability and abrasion resistance and use PP-Homopolymer as the base.

Ex) Friction element

4. REQUIREMENTS

4.1. Mechanical properties

		Group 3 Type 1	Group 4 Type 1
Rockwell hardness			
EDS-T-7517	R Scale	110	-
Tensile strength (kg/cm ²)	Test piece (13×3mm)		
EDS-T-7511	Test speed (50mm/min)	850	850
Elongation (%)	Test piece (13×3mm)		
EDS-T-7511	Test speed (50mm/min)	3	10