

EDS

Engineering,
GM DAEWOO Auto & Technology
Standards

30% LONG GLASS FIBER REINFORCED POLYPROPYLENE

EDS-M-4260

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VERSION: 4

1. SCOPE

This specification defines general requirements for raw materials of 30% long 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. Type 1: Raw material is for the injection molding process. It is the composite containing the long glass fiber (the average length of the glass fiber is about 1~4mm) by the extrusion process with PP-HOMO.

Ex) Battery Tray

3.2. Type 2: Raw material is for the injection molding process. It is the composite containing the long glass fiber (the average length of the glass fiber is about 8~10mm) by the pultrusion process with PP.

Ex) Engine under Cover

4. REQUIREMENTS

4.1. Mechanical properties

		Type 1	Type 2
Tensile strength (kg/cm ²) EDS-T-7511	Test piece (13×3mm)		
	Test speed (5mm/min)	400	1,000
Elongation (%) EDS-T-7511	Test piece (13×3mm)		
	Test speed (5mm/min)	3	3
Flexural strength (kg/cm ²) EDS-T-7518	Test piece		
	- Type 1: 80×25×3.2mm		
	- Type 2: 127×12.7×6.4mm		
	Test speed	850	1,450
	- Type 1: 1.3mm/min		
	- Type 2: 2.8mm/min		