

EDS

Engineering,
GM DAEWOO Auto & Technology
Standards

MEDIUM DENSITY POLYETHYLENE

EDS-M-4131

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VERSION: 10



MEDIUM DENSITY POLYETHYLENE

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1. SCOPE

This specification defines general requirements for raw materials of medium density polyethylene applied to interior and exterior parts of a vehicle.

2. MATERIAL INDICATION

Material indication: > PE-MD<

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

3. APPLICATION

3.1. Group 1: Raw materials for blow molding whose melt flow index is less than 0.4 and which have higher hardness and rigidity than low density polyethylene.

Ex) Sunvisor bracket

3.2. Group 2: Raw materials for blow molding whose melt flow index is 0.4 ~ 1.2 and which have higher hardness and rigidity than low density polyethylene.

3.3. Group 3: Raw materials for injection molding whose melt flow index is 1 ~ 3 and which have higher hardness and rigidity than low density polyethylene.

3.4. Group 4: Raw materials for injection molding whose melt flow index is 3 ~ 10 and which have higher hardness and rigidity than low density polyethylene.

Ex) Energy Absorber Bracket

4. REQUIREMENTS

4.1. Mechanical properties

		Group 1	Group 3	Group 4	Group 4
		Type 1	Type 1	Type 1	Type 2
Shore D hardness					
EDS-T-7403		55±2	60±2	55±2	60±2
Tensile strength (kg/cm ²)	Test piece (6×3mm)				
EDS-T-7511	Test speed (50mm/min)	200	200	150	150
Elongation (%)	Test piece (6×3mm)				
EDS-T-7511	Test speed (50mm/min)	300	500	500	300

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