

EDS

Engineering,
GM DAEWOO Auto & Technology.
Standards

HIGH DENSITY POLYETHYLENE FOR BLOW MOLDING

EDS-M-4152

ISSUED DATE: 1997. 12. 10

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VERSION: 3

1. SCOPE

This specification defines general requirements for raw materials high density polyethylene for blow molding applied to interior, exterior or engine and chassis parts of a vehicle.

2. MATERIAL INDICATION

Material indication: > **PE-HD** <

Detailed contents shall conform to the indication method of synthetic resin materials for vehicles. (Spec. No: EDS-M-0101)

3. APPLICATION

Raw materials having high molecular weight for blow molding which have high rigidity and hardness and especially excellent heat resistance and impact strength.

Ex) Plastic fuel tank (Mono, Multi layer plastic fuel tank)

4. REQUIREMENTS

4.1. Mechanical properties

			Type 1
Rockwell hardness			
EDS-T-7517	R Scale		50
Tensile strength (kg/cm ²)	Test piece (6×3mm)		
EDS-T-7511	Test speed (50mm/min)		230
Elongation (%)	Test piece (6×3mm)		
EDS-T-7511	Test speed (50mm/min)		500
Flexural strength (kg/cm ²)	Test piece (127×12.7×6.4mm)		
EDS-T-7518	Test speed (28mm/min)		260
Flexural modulus (kg/cm ²)	Test piece (127×12.7×6.4mm)		
EDS-T-7510	Test speed (28mm/min)		8,000
Impact strength, IZOD	Test piece (63.5×12.7×3.2mm)		
(kg cm/cm)	Room temperature		NB
EDS-T-7514	-30°C		-