

EDS

Engineering,
GM DAEWOO Auto & Technology
Standards

HIGH THERMAL RESISTANT POLYCARBONATE

EDS-M-5302

ISSUED DATE: 2006. 04. 03

REVISED DATE: -

VERSION: 1

1. SCOPE

This specification defines general requirements for raw materials of high thermal resistant polycarbonate applied to interior and exterior parts of a vehicle.

2. MATERIAL INDICATION

Material indication: > PC-HT <

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

3. APPLICATION

3.1. Group 1

3.1.1. Type 1 : High thermal resistant raw materials which heat deflection temperature is about 20°C higher than general polycarbonate.

Ex) Head lamp bezel

3.1.2. Type 3 : High thermal resistant raw materials which heat deflection temperature is about 50°C higher than general polycarbonate.

Ex) Fog lamp lens, bulb cap

4. REQUIREMENTS

4.1. Mechanical properties

		Group 1	
		Type 1	Type 3
Rockwell hardness			
EDS-T-7517	R Scale	120	120
Tensile strength (kg/cm ²)	Test piece (13×3mm)		
EDS-T-7511	Test speed (5mm/min)	670	700
Elongation (%)	Test piece (13×3mm)		
EDS-T-7511	Test speed (5mm/min)	-	-
Flexural strength (kg/cm ²)	Test piece (127×12.7×6.4mm)		
EDS-T-7518	Test speed (2.8mm/min)	1,000	1,000
Flexural modulus (kg/cm ²)	Test piece (127×12.7×6.4mm)		
EDS-T-7510	Test speed (2.8mm/min)	25,000	25,500