

EDS

Engineering,
GM DAEWOO Auto & Technology.
Standards

POLYURETHANE FOAM FOR MOLDED PARTS

EDS-M-6808

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VERSION: 3

1. PURPOSE

This specification specifies the physical properties and controlling quality of the polyurethane foam used in automotive.

2. SCOPE

This specification applies to the seat cushion, seat backs and similar molded parts of the vehicles.

3. MATERIAL

Polyurethane foam based on polyether

4. REQUIREMENTS

4.1. General requirements

This material is a flexible, open-cell polyurethane foam based on polyester whose composition and properties suit the scope stated above (clause 2). The foam shall be uniform in foam structure, cell size and mechanical properties. Unformed areas (voids) and densifications (streaks) are not permissible. The surface of the foam shall be open respectively porous to ensure sufficient breathing activity.

DESIGNATION	TEST METHOD	SPECIFICATION
4.2. Density	EDS-T-7673	Density must not be more than $\pm 10\%$ under the density of released samples.
4.3. Tensile strength 4.3.1. As-delivered condition 4.3.2. After heat aging change compared to values clause 4.3.1.	EDS-T-7669 -Standard specimen S2- EDS-T-7672 -D3	85 KPa min. 25% max.
4.4. Elongation at break	EDS-T-7669 -Standard specimen S2-	175% min.
4.5. Tear propagation strength	EDS-T-7677	300 N/m min.
4.6. Compression set 4.6.1. As-delivered condition (1) Seat cushion(test code : B2 & C2) (2) Seat back (test code : B2) (3) Center arm rest (test code : B2) 4.6.2. After humidity aging of the EDS-T-7671-E (1) Seat cushion (2) Seat back (3) Center arm rest	EDS-T-7670-B2 & C2	20% max. 20% max. 20% max. 30% max. 30% max. 35% max.