

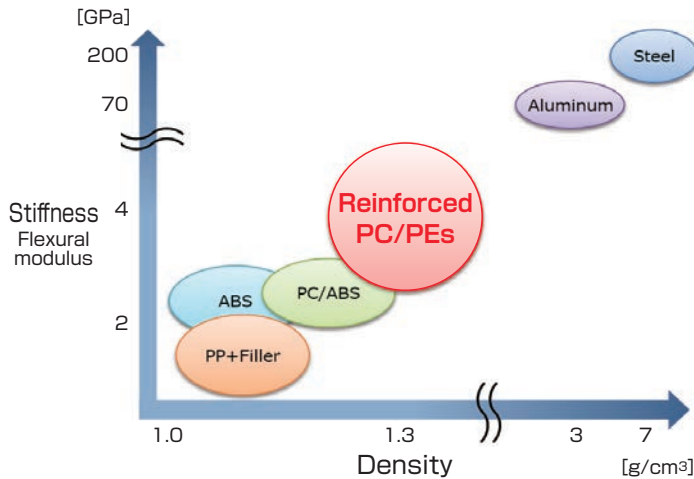
Proposal; Reinforced Polycarbonate/Polyester alloy grade for Automotive exterior applications

Characteristics and Advantages

Reinforced PC/PEs grade: Low density, high rigidity, low CTE, good appearance

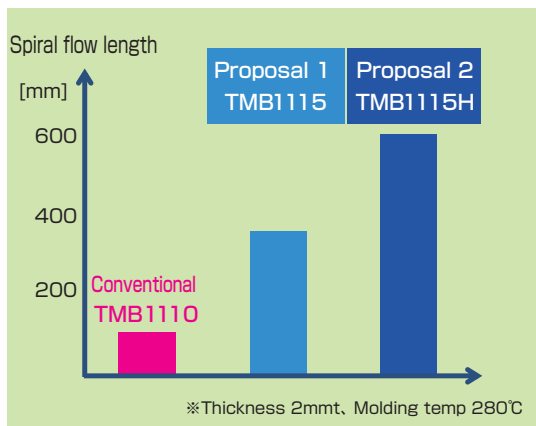
- Proposal 1 TMB1115 : High heat resistance, high rigidity grade
- Proposal 2 TMB1115H : High flow property, high rigidity grade

These grades are applicable to large size parts by the good heat stability

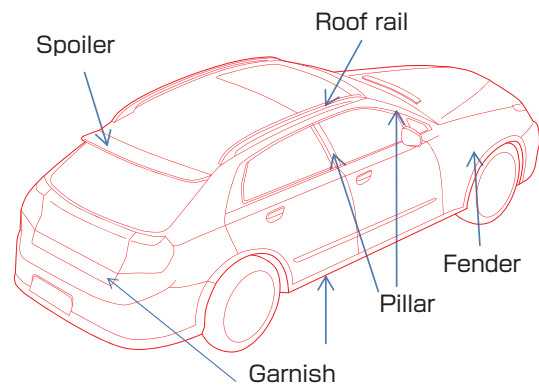


| Property | unit | Conventional | proposal 1 | proposal 2 |
|----------------------|----------------------|--------------|------------|------------|
| | | TMB1110 | TMB1115 | TMB1115H |
| Density | g/cm³ | 1.29 | 1.34 | 1.34 |
| MVR 280°C 2.16kgf | cm³/10min | 7 | 23 | 37 |
| Flexural Modulus | GPa | 3.2 | 4.1 | 4.3 |
| DTUL 1.80MPa | °C | 114 | 120 | 114 |
| CTE -30 ~ 80°C MD | 10 ⁻⁵ /°C | 6.0 | 4.4 | 4.8 |

Flow property



Application examples



Applicable components

Exterior applications: Roof rail, Garnish, Spoiler, Pillar and Fender

Proposal for the future

- Light weight by the replace steel with the polycarbonate/polyester alloy grade
- High flexibility of the design by using the plastic molding

