

POM | KEPITAL | Special weather resistance grades

Classification

- Low gloss weather resistance grade
F20-52G, F30-52G (For interior parts)
- Impact modified weather resistance grade
F20-51U, F30-51U (For exterior parts)
- High toughness weather resistance grade
F10-52H
- Weather resistance, specific application grade
F20-52 LOF R05 (Automotive seat belt buttons)

F10-52D (Automotive seat belt D-rings)



Red Button (seat belt)



D-rings (seat belt)

Special weather resistance grade

Low gloss weather resistance grade (F20-52G, F30-52G)

These grades exhibit luxurious surface properties because they have a lower surface gloss than standard weather resistance grades. In addition, it is used in various colors in addition to the basic natural color.

Classification	Unit	Low gloss		Standard
		F20-52G	F30-52G	F30-52
Surface gloss	-	40	55	90

* The higher the value is, the higher the surface gloss is.



Impact modified weather resistance grade (F20-51U, F30-51U)

These have impact resistance properties plus weather resistance properties. By using them, fractures due to UV, moisture, and fractures caused by physical impact can be reduced. They can be applied to automotive exterior parts where both weather resistance property and impact resistance property are needed.

Classification	Test method	Unit	F20-51	F20-51U
Tensile strength	ISO	MPa	62	55
Elongation at break		%	25	40
Impact strength (Charpy)		kJ/m ²	7	8.5
ΔE (Weather resistance property)	SAE J2527 (Exterior)	-	Under 2.0	Under 2.0

Application

- Automotives
 - Sun roof parts
 - Wiper parts
 - Sun visor parts
 - Door handle parts
 - Seat belt parts (D-rings, red buttons)



These grades can also be applied to electrical/electronic applications or industrial applications, which will be exposed to outdoor weather or UV radiation.

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