

## Olefin Elastomer

We offer products with excellent design properties having matte finish and smooth texture like silk that gives luxurious feeling. It has same level of rubber elasticity as general rubber products, and it can be molded with the same processing method as thermoplastic resin. It can be blended with TPO series and olefin resin, and products from rubber like properties to resin like properties can be obtained. Besides, it can also be recycled.

[ Application ] Cutter grip / office chair



## TPO ( Thermo Plastic Olefin )

In this olefin elastomer, we have finely dispersed EPDM in PP and we have done dynamic cross-linking with organic peroxide. EPDM is either partially or completely cross-linked.

- Excellent weather resistance and chemical resistance
- Because of low density, weight of the products can be reduced (0.88-0.89)
- It is highly recyclable, and there is very little decline in properties even if it is reused
- It has excellent heat resistance, and it has excellent extrusion and intrusion formability

### FX-TPO-J Series [Partial cross-linked type]

Olefin based standard grade. In this type, degree of cross-linking as well as the balance between workability and heat resistance is also adjusted

### FX-TPV Series [Complete cross-linked type]

In this grade, rubber like properties are strengthened with completely cross-linked EPDM. While it has better mechanical strength than FX-TPO-J series, it has lower percentage of elongation.

## Data Seat

Orefin Elastomer Data Seat	FX-TPO-J160	FX-TPO-J170	FX-TPV180	FX-TPV190
Hardness	60	70	80	90
MFR g/10min (190°C 5.0kg)	63	9	20	20
Tensile strength MPa	4.1	5.5	8.7	9.2
Percentage elongation %	650	650	450	450
100% modulus MPa	2	1.2	5.4	6

We also offer acrylic, urethane grade, and functionality imparting grade.  
Please feel free to discuss physical properties adjustment, color matching, and the like.