A comparison of EPDM and TPE

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① Performance comparison:

Thermoplastic elastomer TPE and EPDM rubber sheet have similar good elasticity and texture, they share many common features:
Fine rubber characteristic
Excellent weather resistance, resistant to ozone, anti-UV
Good seal water proofing property

To compare process performance, elastomer TPE doesn’t need to be vulcanized whereas EPDM rubber sheets must be through vulcanized.

To compare application performance:
Specific gravity of TPE is 0.89~0.98, EPDM is 1.3~1.5.
Heat resistance of EPDM is 160℃, better than TPE, which is at 100℃.
EPDM has better abrasion performance that that of TPE
Both of EPDM rubber and TPE have good resistance to acid-base and seawater.

② Processing comparison:
Both of TPE and EPDM rubbers have good processing property, which can be processed into various manufactured goods.