



KIMIA POLYMER APADANA



**Quality
Sustainability
Innovation**

Thermoplastic elastomer (TPE) compounds

Main raw materials of TPE compounds

- SEBS, SBS
- PP, PE, PS, and etc

Main features of TPE compounds

- Excellent elasticity
- Good chemical, corrosion, weather and temperature resistance
- Excellent bending
- Easy coloring
- Wide range of hardness (10A - 45D)
- Recyclable



Processing methods

- Injection, extrusion, and etc

Applications

- Road traffic equipment and safety devices
- Railway pads
- Automotive industries
- Home appliances
- Sport products
- Floor covering products
- Toys

Five-layer pipes related compounds (PEX, PERT, and Tie layer Adhesive)

PEX/PERT

- PEX and PERT compounds are used as the inner and outer layers of five-layer pipes.



Main features of PEX/PERT

- Good extrusion properties at high output rates
- Excellent impact strength
- Good ESCR and creep resistance
- Proper internal pressure resistance under ambient and elevated temperature conditions
- High temperature & pressure resistant
- Hygienically safe
- High Aging stability
- Corrosion & acid resistant



Tie layer adhesive

- A tie layer adhesive is used to bind polymer layers to aluminum.

Main features of Tie layer adhesive

- Excellent long term adhesion durability
- Excellent physical, mechanical, and processing properties
- Good adhesion to aluminum and polymer layers of pipes





| Pipe and Tape compounds

- PE based compounds (PE40, PE80, PE100, and ...) are used to prepare pipes for distribution of fluids under pressure and fuel gas.



Main features of Pipe and Tape compounds

- Good extrusion properties at high output rates
- Proper pressure resistance
- Good oxidative and environmental stress crack resistance
- Stabilized against UV
- Excellent physical, and mechanical properties

| Additive masterbatches

- Antioxidant masterbatch
- Processing aid masterbatch
- UV stabilizer masterbatch
- Slip masterbatch
- Anti-block masterbatch



- Anti-block slip masterbatch
- Anti-static masterbatch
- IR absorption masterbatch
- Viscos break masterbatch
- Flame retardant masterbatch





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