

POM | KEPITAL | Special impact-modified grades

Features

- New impact-modified grade
TE-22S, TE-23S
- Improved weld & low temperature characteristics
TE-22R, FU2020R
- Super-toughness grade
ST-30, ST-50, ST-70
- Ultra-high flow grade
TE-33A, TE-44

Applications



Conveyor chain



Cable tie



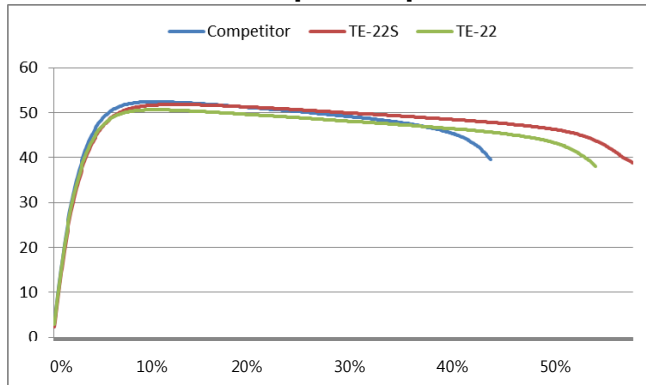
Clips

Special

New impact-modified grade (TE-22S, TE-23S)

TE-22S & TE-23S have mechanical properties balanced between toughness and impact strength. Impact-modified grades typically have poor weld-line strength; however these grades are 10% stronger than our competitors' products.

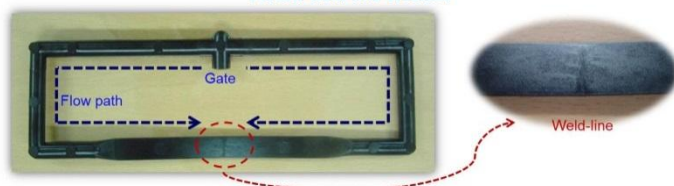
[S-S curve]



Improved weld & low temperature characteristics (TE-22R, FU2020R)

Impact-modified grade exhibits poor weld-line and low temperature features. TE-22R & FU2020R overcome and even improve upon this weakness.

Forced weld-line creation

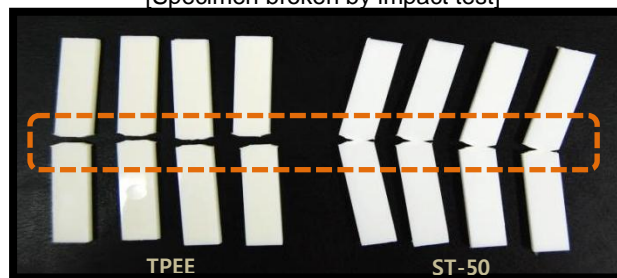


Item	Unit	TE-22	TE-22R
Tensile strength	MPa	41	49
Elongation at yield	%	3.5	49.0
Broken position		At weld	Except weld

Super-toughness grade (ST-30, ST-50, ST-70)

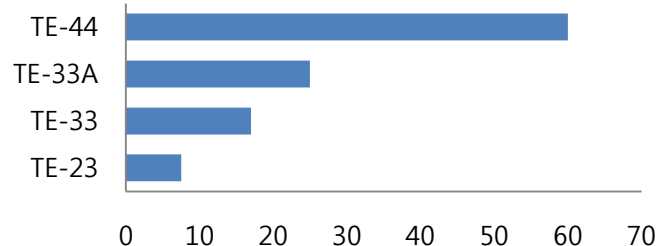
ST grade can cover rubber weakness by improving POM and TPU compatibility, the result of which is outstanding impact strength and toughness.

[Specimen broken by impact test]



Ultra-high flow grade (TE-33A, TE-44)

These grades exhibit the best flowability among KEPITAL impact grades and are suitable for multi-cavities, thin parts, and cable ties.



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