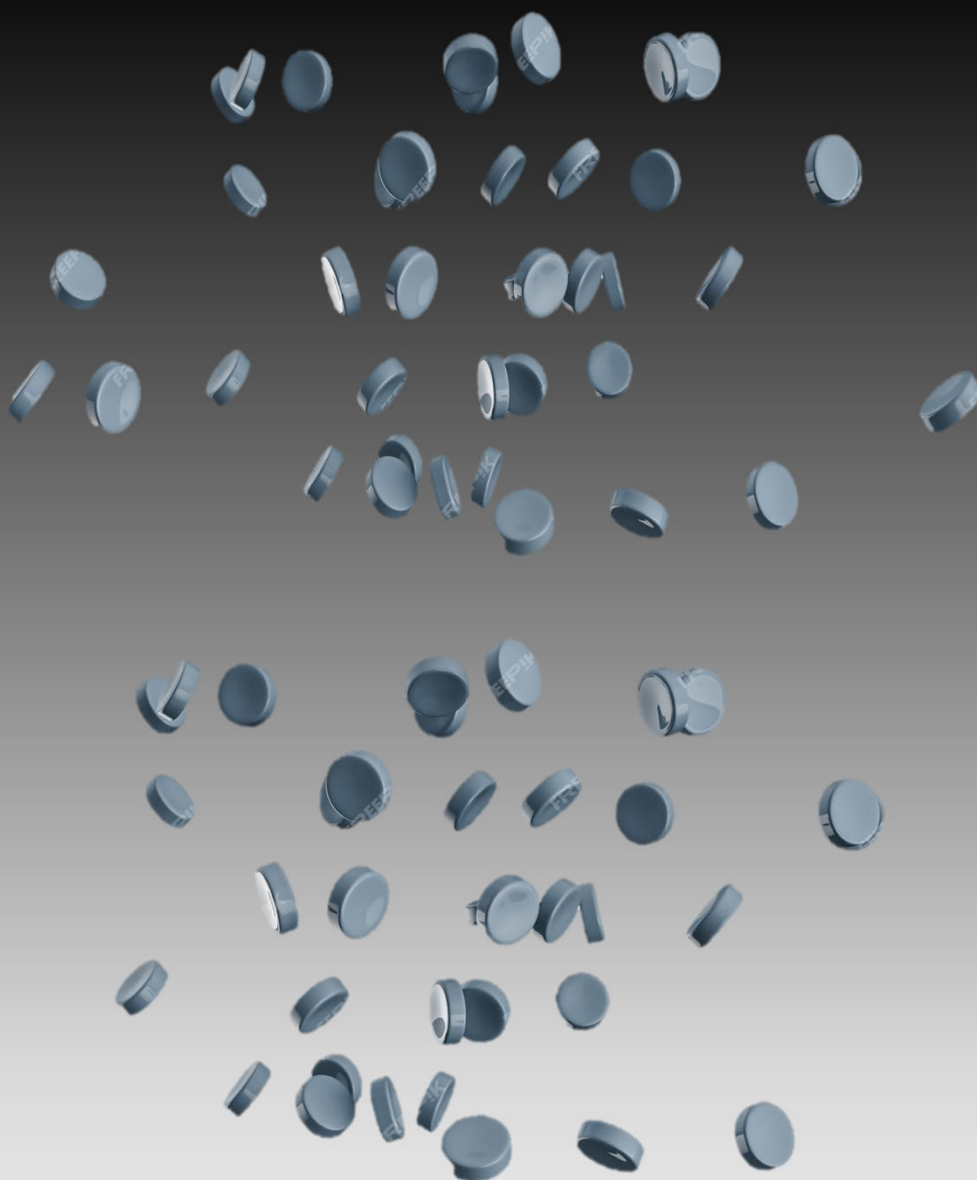


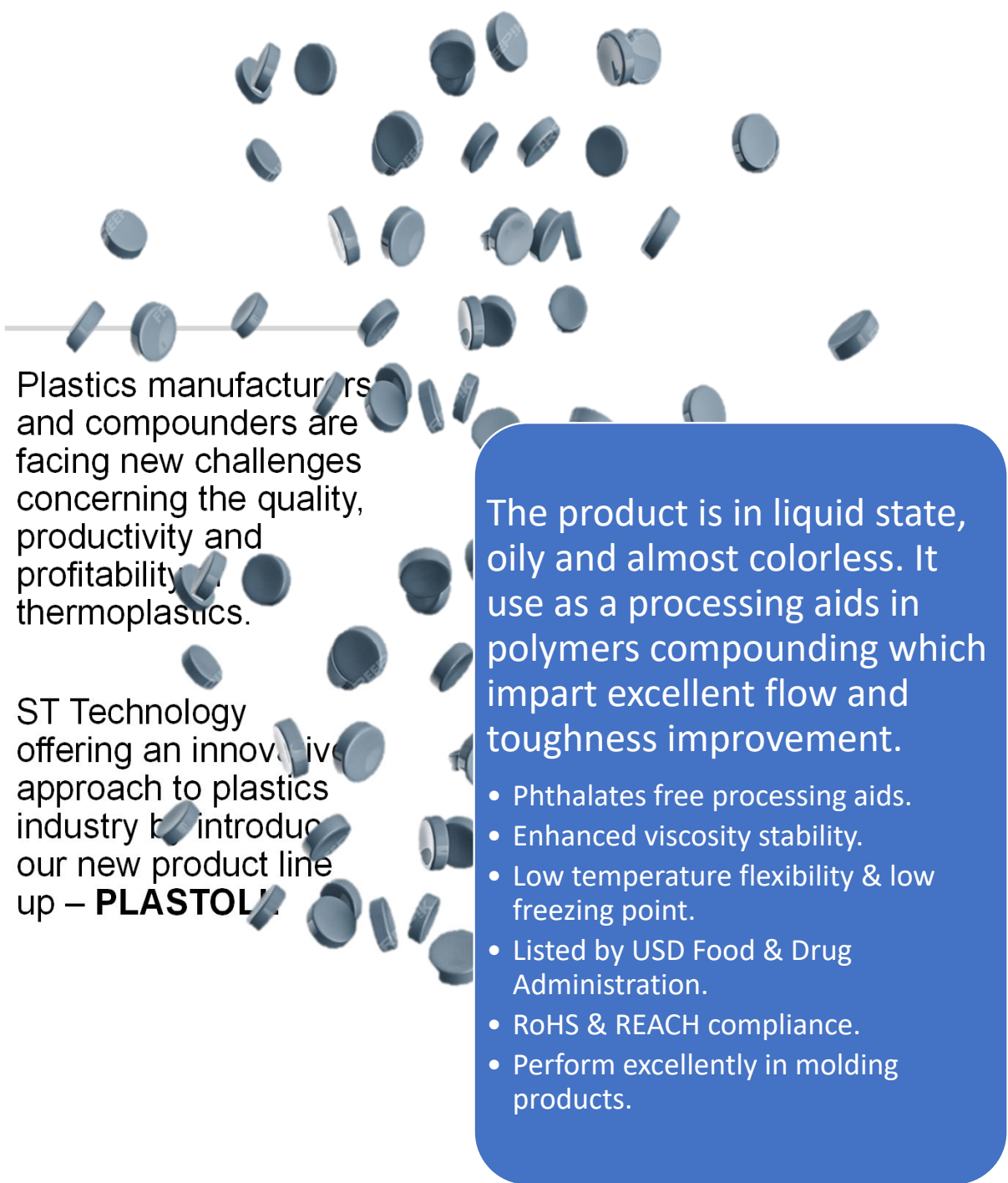


**CREATE NEW VALUE WITH
PLASTOLL**



PLASTICS | PERFORMANCE ADDITIVE





Plastics manufacturers and compounders are facing new challenges concerning the quality, productivity and profitability of thermoplastics.

ST Technology offering an innovative approach to plastics industry by introducing our new product line up – **PLASTOL**.

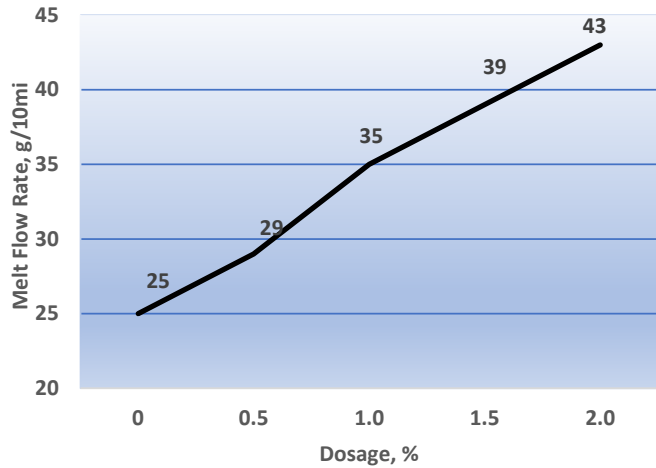
The product is in liquid state, oily and almost colorless. It use as a processing aids in polymers compounding which impart excellent flow and toughness improvement.

- Phthalates free processing aids.
- Enhanced viscosity stability.
- Low temperature flexibility & low freezing point.
- Listed by USD Food & Drug Administration.
- RoHS & REACH compliance.
- Perform excellently in molding products.

PLASTOLL- T20

Flow Enhancement

PLASTOLL- T20 is breakthrough additive technology for improve the flowability for thermoplastics material without scarifying the impact performance and transparency of the thermoplastics. It is recommended use for ABS, transparent ABS, ASA, PMMA, PC/ABS alloy thermoplastics.



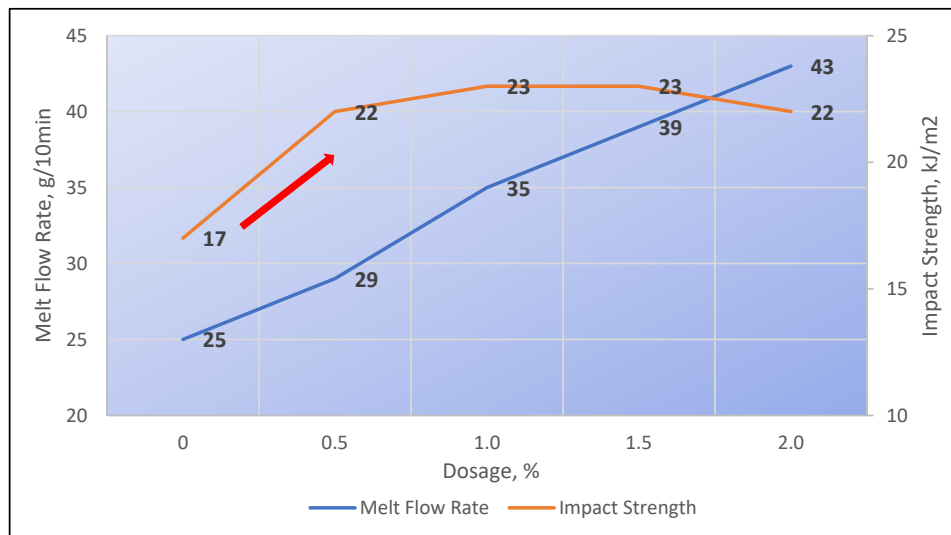
Typical Properties	Test Method	Test Condition	Unit	ABS (Reference)	ABS + 0.5% Plastol T20	ABS + 1.0% Plastol T20	ABS + 1.5% Plastol T20	ABS + 2.0% Plastol T20
Melt Flow Rate	ISO 1133	220 °C, 10 kg	cm ³ / 10min	25	29	35	39	43
Charpy Impact Strength (Notched)	ISO 179/1eA	23 °C	kJ/m ²	17	17	16	17	16
Deflection Temperature Under Load	ISO 75	120 °C/Hr, 1.8MPa	°C	80	79	78	77	76
Tensile Yield Stress	ISO 527	50 mm/min	MPa	53	43	34	33	33
Flexural Modulus	ISO 178	2 mm/min	MPa	2700	2600	2550	2500	2450
Flexural Strength	ISO 178	2 mm/min	MPa	81	72	70	69	69

PLASTOLL- T30

Dual Enhancement

PLASTOLL- T30 was designed specifically for ABS, ASA, transparent ABS to boost up two important properties with one solution.

With minimum dosing (0.5%) of **PLASTOLL-T30** into the compound, manage to increase the impact strength equal to 5% of SAN-g-PBD rubber.



Typical Properties	Test Method	Test Condition	Unit	ABS (Reference)	ABS + 0.5% Plastol T30	ABS + 1.0% Plastol T30	ABS + 1.5% Plastol T30	ABS + 2.0% Plastol T30
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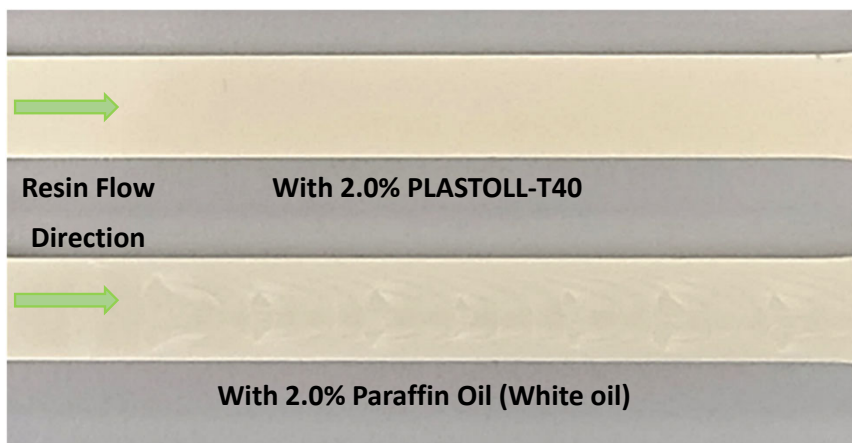
PLASTOLL- T40

Dispersion Enhancement

Mineral filler reinforcement in thermoplastics used to change and improve the physical and mechanical properties of plastics. In general, reinforcing fillers increase the mechanical and various properties of thermoplastics composites.

The main challenges of filler reinforce in thermoplastics is dispersion technology. **PLASTOLL-T40** offer a superior dispersion performance without additional investment for advance extrusion facilities.

PLASTOLL-T40 is superior as dispersion agent for Talc, Calcium Carbonate, Barium Sulfate, silica, wollastonite, clay etc.



With 2.0% Paraffin Oil (White oil)



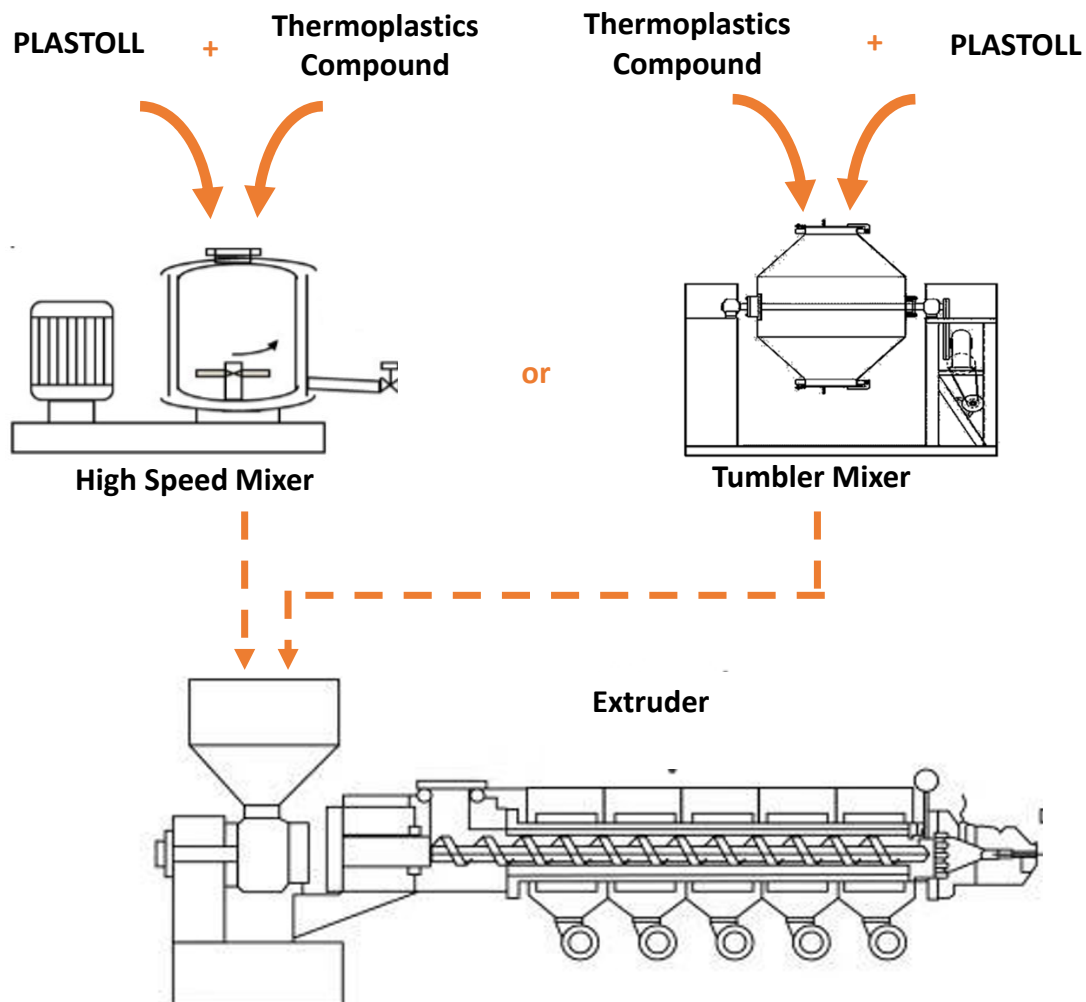
With 2.0% PLASTOLL-T40

PLASTOLL

Processing Guide

In ambient temperature, **PLASTOLL** exhibit in low viscosity liquid form. Hence, it is suitable use in conventional compounding facilities such as high-speed mixer or tumbler mixer. If high ratio of powder form additive in formulation, it is recommended to mix the compound with high-speed mixer to homogeneously disperse **PLASTOLL** in the compound.

Generation of higher vapour during extrusion process is consider normal when the formulation added with **PLASTOLL**. Therefore, it is recommended to apply vacuum vent during extrusion process.



Note:

Each user of the material or design or both should make his own tests to determine the suitability of the material or any material for the design, as well as suitability or suggested uses of the material or design described herein are not to be construed as constituting a license under any ST Technology (Malaysia) Sdn. Bhd.