# Technical Data Sheet

## TCS-820 Compound

## Description

TCS-820 is a high-performance LL/HDPE compound specifically formulated for telephone and network cable sheathing/jackets. TCS-820 offers excellent processability, mechanical & electrical properties, smooth surface finish, and long-term dimensional stability.

## General

**Form:** Natural Pellets

**Process:** Extrusion

**Application:** Telephone & network cable jackets

**Additives:** AO, PPA

**Packaging:** 25 kg sack / 850 kg big bag

## Physical Properties

| Property | Test Method | Unit | Result |
|---|---|---|---|
| Density | ISO 1183 | g/cm$^3$ | 0.945±0.005 |
| Melt Flow Rate (190°C/2.16kg) | ISO 1133 | g/10 min | 0.7±0.2 |
| Tensile Strength at Yield | ISO 527 | MPa | 22 |
| Elongation at Break | ISO 527 | % | 900 |
| Hardness | ISO 868 | Shore D | 60 |
| Melting Point | ISO 11357 | ºC | 124 |
| Oxidation Induction Time | ISO 11357 | min | 30 |
| ESCR (50°C, F50) | ISO 22088 | h | >1000 |

## Processing Guidelines

The compound provides excellent surface finish and output rates over a broad range of conditions in PE screw extruder; however, the optimum results are recommended as follows:

- Barrel Temperatures: 150-220 °C
- Die Head Temperatures: 210-220 °C

## Notes

- The typical properties have been determined using laboratory equipment. Users are advised to verify results through their own standard testing methods.
- The compound is suitable for use on various machines; however, minor adjustments may be required for individual equipment. Customers are advised to verify product quality prior to commercial use.
- The compound should be stored in its original packaging under cool and dry conditions, protected from direct sunlight, heat and contamination. The recommended storage period at the customer's site should not exceed two years.