

# Technical Data Sheet



## Piraelast® TPE 30-A (Shore A Hardness)

Standard, mineral filled SEBS series

**ADDITIVE PACKAGE: UV and Heat stabilization package included**

| TECHNICAL PROPERTIES      | VALUE | Unit   | STANDARD       |
|---------------------------|-------|--------|----------------|
| Physical                  |       |        |                |
| HARDNESS                  | 30 A  | Shore  | ISO 868        |
| DENSITY                   | 1,18  | gr/cm3 | ISO 2781       |
| Mechanical                |       |        |                |
| %100 MODULUS              | 0.7   | MPa    | ISO 37         |
| %300 MODULUS              | 1.2   | MPa    | ISO 37         |
| TENSILE STRENGTH AT BREAK | 3.1   | MPa    | ISO 37         |
| ELONGATION AT BREAK       | 650   | %      | ISO 37         |
| WEAR RESISTANCE           | *     | mm3    | DIN 53516      |
| TEAR STRENGTH             | 16    | kN/m   | ISO 34-1       |
| COMPRESSION SET VALUES    |       |        |                |
| 22 HOUR - 70°C            | 42    | %      | ASTM D 395-03B |
|                           |       | %      | ASTM D 395-03B |
|                           |       | %      | ASTM D 395-03B |
| THERMAL VALUES            |       |        |                |
| BRITTLINESS TEMP          | -60   | °C     | ASTM D 746     |
| CONT. TEMP RESISTANCE     | 135   | °C     |                |

### PRODUCT FEATURES

|            |                                                                      |
|------------|----------------------------------------------------------------------|
| BONDING    | Easy bonding to PP grades                                            |
| COLORING   | Easy coloring by proper color MB's (PE, PP, etc based)               |
| MSDS       | Material Safety Datasheet is available                               |
| RECYCLING  | Recyclability. Depends on process 5% to %30 can be added to original |
| material   |                                                                      |
| PRE-DRYING | 2 hours at 90 oC is requested                                        |

### PROCESS TEMP (Co)

|               |           |
|---------------|-----------|
| REAR BARREL   | 150 - 160 |
| CENTER BARREL | 160 - 170 |
| FRONT BARREL  | 170 - 180 |
| NOZZLE        | 180 - 190 |
| MELT TEMP     | 190 - 200 |
| MOLD TEMP     | 25 - 40   |

Important: Do not exceed 250 °C at any time

### SHRINKAGE AFTER MOLDING

FLOW DIRECTION (%)  
CROSS DIRECTION (%)

### CHEMICAL RESISTANCE

|                |         |
|----------------|---------|
| OZONE          | Perfect |
| WATER          | Perfect |
| ALCOHOL        | Perfect |
| OIL            | Fair    |
| SULPHURIC ACID | Good    |
| DETERGENT      | Good    |

Thank you for your Attention!

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