

PROPERTIES AND METHOD OF TESTING OF MATERIALS AND THEIR COMPATIBILITY

| PROPERTY | TEST METHOD | UNIT | PE 80 | PE 100 |
|------------------------------------|-----------------------|----------------------|-------------------------|-------------------------|
| MELT FLOW RATE 2,16KG LOAD 5 KG | ISO 1133 ISO 1133 | G/10 MIN G/10 MIN | 0.2 1.0 | < 0,15 < 0,5 |
| DENSITY (MEAN VALUES) | ISO 1872 | KG/M ³ | YELLOW 940 BLACK 950 | ORANGE 951 BLACK 957 |
| TENSILE STRENGTH AT YIELD | ISO R527 | MPA | 18 | 23 |
| ELONGATION AT BREAK | ISO 527 | % | > 600 | > 600 |
| FLEXURAL MODULUS | ISO R527 | MPA | 700 | 1000 |
| VICAT SOFTENING POINT | BS2782 | °C | 116 | 124 |
| BRITTLINESS TEMPERATURE | ASTM D746 ISO 9784 | °C | < -70 | < -100 |
| LINEAR THERMAL EXPANSION | ASTM D696 | °C | $1,5 \times 10^{-4}$ | $1,3 \times 10^{-4}$ |
| THERMAL CONDUCTIVITY | DIN 52612 | W/M°K | 0,4 | 0,4 |