# Technical Information Sheet

# ELTAS™ HPE606

## Peroxide Curable FFKM Full-compound Clean Type

| | | HPE606 | Standard Cabon-filled Compound |
|---|---|---|---|
| Color (Compound / Post cured) | | Black / Black | Black / Black |

**Initial properties [ISO 37, ISO 7619-1, ISO 34-1]**

Press Cure:170°C /10min, Post Cure :200°C /6hrs

| | | | |
|---|---|---|---|
| Hardness, Duro A, peak | Duro A | 73 | 74 |
| Mo100 | MPa | 11.2 | 11.3 |
| Tensile strength | MPa | 26.4 | 22.7 |
| Elongation | % | 180 | 180 |

**Compression set[1] [ASTM D1414/D395][Method B][P-24 O-ring]**

| | | | |
|---|---|---|---|
| 200°C /70 hrs | % | 24 | 21 |
| 200°C /240 hrs | % | 30 | 25 |
| 200°C /500 hrs | % | 36 | 29 |
| 200°C /1000 hrs | % | 40 | 33 |
| 250°C /70 hrs | % | 44 | 32 |
| 250°C /240 hrs | % | 53 | 43 |
| 250°C /500 hrs | % | 62 | 51 |
| 250°C /1000 hrs | % | 76 | 64 |

[1]At room temp. 25% compression

**Inorganics Content ICP-MS (Total of 30 elements)**

| | | | |
|---|---|---|---|
| Total Metal | ppb | 2,115 | >260,000 |

| **Chemical Environment** | HPE606 | Standard Carbon-filled Compound |
|---|---|---|
| 30% NaOH (50 ℃ × 14 days) | A | A |
| Sodium hypochlorite (50 ℃ × 14 d days) | A | A |
| 28% $NH_3$ aq (40 ℃ × 14 days) | A | A |
| 28% $NH_3$ aq (23 ℃ × 14 days) | A | A |
| 36% HCl (50 ℃ × 14 days) | A | A |
| 97% $H_2SO_4$ (50 ℃ × 14 days) | A | A |
| 65% $HNO_3$ (50 ℃ × 14 days) | A | A |
| Glacial acetic acid (50 ℃ × 14 days) | B | B |
| Acetic anhydride (50 ℃ × 14 days) | B | B |
| Triethylenetetramine (40 ℃ × 14 days) | A | A |
| Aniline (40 ℃ × 14 days) | A | A |
| Triethylamine (40 ℃ × 14 days) | A | A |
| Ethylenediamine (40 ℃ × 14 days) | A | A |
| Butyl Acetate (40 ℃ × 14 days) | B | B |
| Toluene (40 ℃ × 14 days) | B | B |

| | ΔV | ΔHs |
|---|---|---|
| A | < ±5 | < ±3 |
| B | < ±10 | < ±6 |
| C | < ±15 | < ±9 |
| D | < ±20 | < ±12 |
| E | ±20 < | ±12 < |

This information corresponds with the state of our knowledge at the time of printing and is intended to give information of possible applications to a reader with technical experience. The assurance of properties, product responsibility or guarantee are impossible without our clarification as to the specific applications of use and service conditions.

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