

**TECHNICAL DATA SHEET****DESCRIPTION**

PUMA<sup>®</sup> 4050 is soluble in benzene, alcohol, carbon tetrachloride and in most other organic solvents, but not soluble in water.

**APPLICATION**

PUMA<sup>®</sup> 4050 is a high molecular weight phosphate ester intended for the production of flame retardant polyether, high resilience and molded foams. PUMA<sup>®</sup> 4010 is particularly suited for automotive and furniture applications where resistance to migration upon ageing is a requirement of the flammability standards used.

**GUARANTEED VALUES**

| Parameter                | Value           |
|--------------------------|-----------------|
| Chlorine content         | 36.0% min.      |
| Phosphorous content      | 10.0% min.      |
| Water                    | 0.1% max.       |
| Acid number (ASTM D-974) | 0.10 KOH/g max. |

**TYPICAL VALUES**

| Parameter                       | Value               |
|---------------------------------|---------------------|
| Physical State                  | Clear liquid        |
| Odor                            | Nearly Odorless     |
| Flash Point (TCC)               | > 191 °C / > 376 °F |
| Specific Gravity (Water = 1)    | 1.48                |
| Vapor Pressure at 21 °C (70 °F) | ~ 0.0 mmHg          |
| Decomposition temperature       | >200 °C / 392 °F    |
| Solubility in Water             | Insoluble           |
| Drum net weight                 | 250kg / 551lb       |

**NOTES**

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