

HK PETRO POLYSTYRENE - TYPICAL VALUES

| Property | Test Method | Unit | General Purpose Polystyrene | | High Impact Polystyrene | | |
|-----------------------------|-------------|---------------------|-----------------------------|----------|-------------------------|----------|----------|
| | | | N1841H | N1841 | SR600 | PDR751 | SRG100 |
| Izod Impact Strength | ASTM D256 | kgcm / cm | 1.3 | 1.3 | 11.6 | 15 | 13 |
| Tensile Strength | ASTM D638 | N / mm ² | 45 | 45 | 29 | 26 | 23 |
| Tensile Elongation | ASTM D638 | % | 1.8 | 1.8 | 65 | 65 | 58 |
| Flexural Modulus | ASTM D790 | N / mm ² | 3200 | 3200 | 1900 | 2100 | 2100 |
| Flexural Strength | ASTM D790 | N / mm ² | 80 | 80 | 48 | 43 | 52 |
| Rookwell Hardness | ASTM D785 | | M80 | M80 | L72 | L72 | L72 |
| Heat Deflection Temperature | ASTM D648 | °C | 84 | 84 | 90 | 89 | 90 |
| Vicat Softening Temperature | ASTM D1525 | °C | 95 | 95 | 103 | 102 | 103 |
| Flame Class | UL 94 | Class | HB | HB | HB | HB | HB |
| Food Sanitation | FDA | | Suitable | Suitable | Suitable | Suitable | Suitable |
| Melt Flow Index | ASTM D1238 | g / 10 min | 10 | 10 | 3.2 | 3.5 | 3.5 |
| Gloss | ASTM D523 | % | - | - | - | - | 98 |

* Product is expected to meet HB Flame Class requirement.

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