

ASACOM™ S9470

Acrylonitrile Styrene Acrylate/Polycarbonate

ASACOM S9470 is a high heat modified PC/ASA blend, for exterior applications. It has a very good balance of weatherable properties including gloss and colour retention.

| Physical Properties | Typical Value | Unit | Test Method based on |
|------------------------------------|---------------|-------------------|----------------------|
| Density | 1150 | Kg/m ³ | ISO 1183 |
| Water absorption (23°C, sat) | 0.60 | % | ISO 62 |
| Moisture absorption (23°C, 50% RH) | 0.20 | % | ISO 62 |
| Mould shrinkage | 0.4-0.7 | % | ISO 294 |
| Melt Flow (260°C / 5 kg) | 15 | g/10 min | ISO 1133 |
| Flammability (1.5mm) | HB | | UL94 |
| Flammability (0.8mm) | HB | | UL94 |

All data given are typical product data and do not represent minimum values. The actual value may vary depending on colour and additives.

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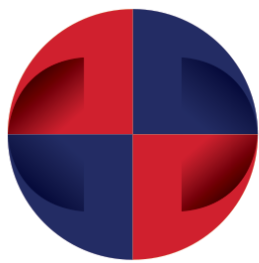
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| Mechanical Properties | Typical Value | Unit | Test Method based on |
|--------------------------------------|---------------|-------------------|----------------------|
| Tensile Strength at Yield (50mm/min) | 60 | MPa | ISO 527 |
| Elongation at Break | 50.0 | % | ISO 527 |
| Tensile Modulus (1mm/min) | 2500 | MPa | ISO 527 |
| Flexural Modulus | 2450 | MPa | ISO 527 |
| Flexural Strength | 80 | MPa | ISO 178 |
| Izod Notched Impact (RT) | 40 | kJ/m ² | ISO 180/1A |
| Charpy Notched Impact (RT) | 50 | kJ/m ² | ISO 179/1eA |
| Charpy Unnotched Impact (RT) | NB | kJ/m ² | ISO 179/1eU |
| CTI | 175 | V | IEC 60112 |
| Relative permittivity, 1Mhz | 2.9 | | IEC 60250 |
| | | | |
| | | | |

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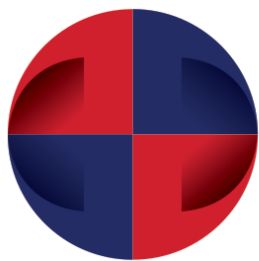
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POLYMER COMPOUNDERS LIMITED

ASACOM™ S9470

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| Thermal Properties | Typical Value | Unit | Test Method based on |
|------------------------------|---------------|------|------------------------|
| CTE linear | 7.0E-05 | 1/°C | ISO 11359-2 (Parallel) |
| HDT (0.46 MPa) | 121 | °C | ISO 75/Ae |
| HDT (1.8 MPa) | 112 | °C | ISO 75/Ae |
| Vicat Softening point (B/50) | 130 | °C | ISO 306 |

| Processing Properties | Typical Value | Unit |
|-----------------------|---------------|------|
| Melt Temperature | 255 | °C |
| Mould Temperature | 70 | °C |
| Injection Velocity | 60.0 | mm/s |
| Drying Time | 2 to 4 | hr |
| Drying Temperature | 100 | °C |

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