

ASACOM™ S5000

Acrylonitrile Styrene Acrylate

ASACOM S5000-56 is a full global UV protected easy flowing injection moulding grade ASA with exceptional weathering performance. Applications include automotive exterior covers and gardening equipment.

Physical Properties	Typical Value	Unit	Test Method based on
Density	1050	Kg/m ³	ISO 1183
Water absorption (23°C, sat)	1.00	%	ISO 62
Moisture absorption (23°C, 50% RH)	0.22	%	ISO 62
Mould shrinkage	0.4-0.7	%	ISO 294
Melt Flow (220°C / 10 kg)	20	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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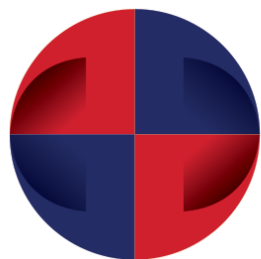
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Mechanical Properties	Typical Value	Unit	Test Method based on
Tensile Strength at Yield (50mm/min)	35.0	MPa	ISO 527
Tensile Strength at Yield (80°C)	19.0	MPa	ISO 527
Tensile Strength at Yield (-40°C)	63.0	MPa	ISO 527
Elongation at Break	40.00	%	ISO 527
Elongation at Yield (50mm/min)	3.60	%	ISO 527
Elongation at Yield (80°C)	2.40	%	ISO 527
Elongation at Yield (-40°C)	3.60	%	ISO 527
Tensile Modulus (1mm/min)	2 000	MPa	ISO 527
Flexural Strength	58	MPa	ISO 178
Izod Notched Impact (RT)	16	kJ/m2	ISO 180/1A
Charpy Notched Impact (RT)	22	kJ/m2	ISO 179/1eA
Charpy Unnotched Impact (RT)	150	kJ/m2	ISO 179/1eU

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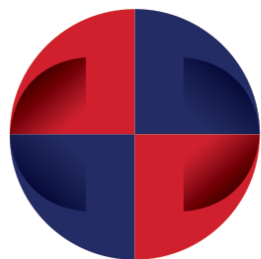
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Thermal Properties	Typical Value	Unit	Test Method based on
CTE linear	9.0E-04	1/°C	ISO 11359-2 (Parallel)
HDT (0.46 MPa)	90.0	°C	ISO 75/Ae
HDT (1.8 MPa)	79.0	°C	ISO 75/Ae
Vicat Softening point (B/50)	95.0	°C	ISO 306

Processing Properties	Typical Value	Unit
Melt Temperature	240	°C
Mould Temperature	60	°C
Injection Velocity	60.0	mm/s
Drying Time	2 to 4	hr
Drying Temperature	80	°C

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