

Ravago Manufacturing Americas Hybrid S555 ABS + Polycarbonate Alloy

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Entec's proprietary products include a full range of compounds in the Nylon 6/6, Nylon 6, ABS, PBT, Polycarbonate, PC/ABS, PC/ASA, PC/PBT, and PPO/PPE resin families. Information provided by Ravago.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ravago-Manufacturing-Americas-Hybrid-S555-ABS-Polycarbonate-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Density	1.18 g/cc	0.0426 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ISO 294-4
	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	21 g/10 min	21 g/10 min	ASTM D1238
	28.32 g/10 min	28.32 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	62.0 MPa	8990 psi	ISO 527-1,-2
	63.4 MPa	9200 psi	ASTM D638
Elongation at Break	45 %	45 %	ASTM D638
	48 %	48 %	ISO 527-1,-2
Flexural Strength	83.0 MPa	12000 psi	ISO 178
Flexural Yield Strength	84.1 MPa	12200 psi	ASTM D790
Flexural Modulus	2.55 GPa	370 ksi	ISO 178
	2.55 GPa	370 ksi	ASTM D790
Izod Impact, Notched	6.41 J/cm	12.0 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	44.0 kJ/m ²	20.9 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	105 °C	221 °F	ISO 75A-1,-2
	107 °C	224 °F	ASTM D648

Thermal Properties (264 psi)	Metric	English	Comments
Stress at Break (MPa)	93.9 °C	201 °F	ASTM D648
Vicat Softening Point	110 °C	230 °F	ASTM D1525
Flammability, UL94	V-0	V-0	Internal Test
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VB	5VB	Internal Test
	@Thickness 2.50 mm	@Thickness 0.0984 in	
	5VA	5VA	Internal Test
	@Thickness 3.00 mm	@Thickness 0.118 in	

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