



Mablex® 449E

Ravago Manufacturing Europe - Polycarbonate + ABS

General Information

Product Description

PC/ABS blend injection moulding V0 flame retardant, antimony bromine and chlorine free, enhanced thermal stability, non blooming

General

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Features	• Antimony Free • Bromine Free	• Chlorine Free • Flame Retardant	• Good Thermal Stability • Non-Blooming
Processing Method	• Injection Molding		

Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	25	g/10 min	ISO 1133
Molding Shrinkage	0.50 to 0.70	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	50.0	MPa	ISO 527-2
Tensile Stress (Break)	45.0	MPa	ISO 527-2
Tensile Strain (Break)	60	%	ISO 527-2
Flexural Modulus	2700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/A
-30°C	25	kJ/m ²	
23°C	50	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	95.0	°C	ISO 75-2/A
Vicat Softening Temperature	107	°C	ISO 306/B50
Ball Pressure Test (85°C)	Pass		
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength (1.00 mm, in Oil)	30	kV/mm	IEC 60243-1
Comparative Tracking Index	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.6 mm	V-0		
3.2 mm	V-0		
Glow Wire Flammability Index (2.0 mm)	960	°C	IEC 60695-2-12

Notes

¹ Typical properties: these are not to be construed as specifications.