

Opticarb 8085SE

The Materials Group - Polycarbonate + ABS

General Information

Product Description

Opticarb 8085SE is a Polycarbonate + ABS with SiO₂ additive.

General

Material Status	• Commercial: Active		
Availability	• North America		
Features	• Low Friction		
Uses	• Automotive Applications		
Appearance	• Black	• Colors Available	• Natural Color
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	17	g/10 min	ISO 1133
Molding Shrinkage (0.126 in)	0.40 to 0.70	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	290000	psi	ISO 527-1
Tensile Stress (Yield)	7980	psi	ISO 527-2
Flexural Modulus	290000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	29	ft·lb/in ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	217	°F	ISO 75-2/A

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	220 to 230	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Processing (Melt) Temp	475 to 530	°F

Injection Notes

Exact processing temp will vary w/ part. Starting mid-lower range is typical. Contact TMG for on-site technical support.

Notes

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

