

CALIBRE™ 1060 DVD Polycarbonate Resin

Overview

CALIBRE™ 1060 DVD is a resin that has been developed to address the high demands of the modern optical media industry and is suitable for moulding all major disc formats - such as CD, DVD, Blu-Ray. This resin provides higher ductility and toughness as well as lower flow compared to CALIBRE™ 1080 DVD.

Main Characteristics:

- Excellent toughness/processability balance
- High purity

Applications:

- Optical storage discs

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.20 g/cm ³	1.20 g/cm ³	ASTM D792 ISO 1183/B
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	58 g/10 min	58 g/10 min	ASTM D1238 ISO 1133
Molding Shrinkage - Flow	0.0050 to 0.0070 in/in	0.50 to 0.70 %	ASTM D955 ISO 294-4
Water Absorption (73°F (23°C), 24 hr)	0.20 %	0.20 %	ASTM D570 ISO 62
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Unnotched Izod Impact (73°F (23°C))	No Break	No Break	ASTM D256 ISO 180
Notched Izod Impact			
73°F (23°C)	578 N	578 N	ASTM D256
73°F (23°C), Method A	10.9 ft-lb/in	580 J/m	ISO 180
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Refractive Index	1.583	1.583	ASTM D542 ISO 489
Transmittance	> 90.0 %	> 90.0 %	ASTM D1003
Haze	< 1.0 %	< 1.0 %	ASTM D1003

Additional Information

ASTM and ISO test methods may not be technically equivalent, so that data values may differ from those obtained by simple unit conversion.

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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