



CALIBRE™ 1060 DVD

Trinseo - Polycarbonate Resin

Tuesday, November 5, 2019

General Information

Product Description

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

General

Material Status	• Commercial: Active		
Availability	• Europe	• Latin America	• North America
Features	• Ductile • Good Optical Properties	• Good Processability • Good Toughness	• High Purity
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.20		ASTM D792
Density	1.20	g/cm ³	ISO 1183/B
Melt Mass-Flow Rate (300°C/1.2 kg)	58	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	58	g/10 min	ISO 1133
Molding Shrinkage - Flow	5.0E-3 to 7.0E-3	in/in	ASTM D955
Molding Shrinkage - Flow	0.50 to 0.70	%	ISO 294-4
Water Absorption (24 hr, 73°F)	0.20	%	ASTM D570
Water Absorption (24 hr, 73°F)	0.20	%	ISO 62
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ² (73°F)	11	ft-lb/in	ISO 180
Unnotched Izod Impact (73°F)	No Break		ASTM D256
Unnotched Izod Impact Strength (73°F)	No Break		ISO 180
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.583		ASTM D542
Refractive Index	1.583		ISO 489
Transmittance	> 90.0	%	ASTM D1003
Haze	< 1.00	%	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

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

² Notch A