Celanese
The chemistry inside innovation™

COOLPOLY® D5526

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CoolPoly® D5526 offers thermal conductivity, excellent mechanical strength, surface appearance, low warpage, and excellent dimensional stability. Application for this grade is for a part with thin wall design in automotive and electronics. The D series is electrically non-conductive and can be used for its dielectric properties.

Product information

Resin Identification	LCP-MD	ISO 1043
Part Marking Code	>LCP-MD<	ISO 11469

Rheological properties

Moulding shrinkage, parallel	0.1	%	ISO 294-4, 2577
Moulding shrinkage, normal	0.3	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	10000	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	82	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.1	%	ISO 527-1/-2
Flexural modulus	10000	MPa	ISO 178
Flexural strength	110	MPa	ISO 178
Charpy impact strength, 23°C	13	kJ/m²	ISO 179/1eU
Poisson's ratio	0.34[C]		

[C]: Calculated

Thermal properties

Temperature of deflection under load, 1.8 MPa	261	°C	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	11	E-6/K	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	22	E-6/K	ISO 11359-1/-2
Thermal conductivity, flow	4.8	W/(m K)	ISO 22007-2
Thermal conductivity, crossflow	3.4	W/(m K)	ISO 22007-2
Thermal conductivity, through plane	0.8	W/(m K)	ISO 22007-2

Flammability

Burning Behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.2	mm	IEC 60695-11-10
UL recognition	yes		UL 94

Electrical properties

Volume resistivity	>1E13	Ohm.m	IEC 62631-3-1
Surface resistivity	1E14	Ohm	IEC 62631-3-2
Electric strength	41	kV/mm	IEC 60243-1

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Physical/Other properties

Density	1840 kg/m³	ISO 1183

Characteristics

Processing	Injection Moulding
Special characteristics	Flame retardant, Low Warpage