

VECTRA® MLX4243 - LCP

Description

High heat resistant, mineral filled LCP material with high flow. Material has silver metallic appearance for use in aesthetic metallic effect applications. Chemical abbreviation according to ISO 1043-1 : LCP FDA compliant

Mechanical properties	Value	Unit	Test Standard
Tensile modulus	12500	MPa	ISO 527-2/1A
Tensile stress at break, 5mm/min	130	MPa	ISO 527-2/1A
Tensile strain at break, 5mm/min	2.5	%	ISO 527-2/1A
Flexural modulus, 23°C	13200	MPa	ISO 178
Flexural strength, 23°C	150	MPa	ISO 178
Charpy notched impact strength, 23°C	8	kJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
Melting temperature, 10°C/min	332	°C	ISO 11357-1/-3
DTUL at 1.8 MPa	245	°C	ISO 75-1, -2

Typical injection moulding processing conditions

Pre Drying	Value	Unit	Test Standard
Necessary low maximum residual moisture content	0.01	%	-
Drying time	6	h	-
Drying temperature	≥150	°C	-
Temperature	Value	Unit	Test Standard
Zone1 temperature	315 - 325	°C	-
Zone2 temperature	325 - 335	°C	-
Zone3 temperature	330 - 345	°C	-
Zone4 temperature	335 - 350	°C	-
Nozzle temperature	335 - 345	°C	-
Melt temperature	335 - 345	°C	-
Mold temperature	80 - 130	°C	-
Pressure	Value	Unit	Test Standard
Injection pressure	500 - 1500	bar	-
Hold pressure	500 - 1500	bar	-
Speed	Value	Unit	Test Standard
Injection speed	very fast	-	-

Characteristics

Product Categories

Mineral reinforced