

POLIFOR® 5210/V2 - PP

Description

Polypropylene, homopolymer, 10% mineral filled, UL94 V2.

Physical properties	Value	Unit	Test Standard
Density	63.1	lb/ft ³	ISO 1183
Melt flow rate, MFR	10	g/10min	ISO 1133
MFR temperature	446	°F	ISO 1133
MFR load	4.76	lb	ISO 1133

Mechanical properties	Value	Unit	Test Standard
Tensile stress at yield, 50mm/min	4640	psi	ISO 527-1, -2
Flexural modulus, 23°C	319000	psi	ISO 178
Flexural strength, 23°C	6530	psi	ISO 178
Charpy impact strength, 23°C	23.8	ft-lb/in ²	ISO 179/1eU
Charpy notched impact strength, 23°C	1.09	ft-lb/in ²	ISO 179/1eA
Izod impact notched, 23°C	1.33	ft-lb/in ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
Vicat softening temperature, 50°C/h 50N	199	°F	ISO 306
Flammability @1.6mm nom. thickn.	V-2	class	UL 94
Flammability @3.2mm nom. thickn.	V-2	class	UL 94
Flammability at thickness h	V-2	class	UL 94
thickness tested (h)	0.0295	in	UL 94
UL recognition (h)	UL	-	UL 94

Typical injection moulding processing conditions

Pre Drying	Value	Unit
Drying time	2 - 3	h
Drying temperature	176 - 212	°F

Temperature	Value	Unit
Zone1 temperature	374 - 410	°F
Zone2 temperature	392 - 428	°F
Zone3 temperature	410 - 446	°F
Nozzle temperature	410 - 446	°F
Mold temperature	86 - 140	°F

Other text information

Longer pre-drying times/storage

This product should be stored in a covered facility and kept away from moisture and heat.

Characteristics

Special Characteristics	Flame retardant
Product Categories	Mineral reinforced
Processing	Injection molding
Additives	Flame retarding agent