

POLIFOR® C40 UV Black 900 - PP

Description

Polypropylene copolymer, unfilled, UV stabilized

Physical properties	Value	Unit	Test Standard
Density	56.2	lb/ft ³	ISO 1183
Melt flow rate, MFR	42	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	3190	psi	ISO 527-1, -2
Tensile strain at break, 50mm/min	>20	%	ISO 527-1, -2
Flexural modulus, 23°C	167000	psi	ISO 178
Izod impact notched, 23°C	2.85	ft-lb/in ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
Vicat softening temperature, 50°C/h 50N	158	°F	ISO 306
Flammability @1.6mm nom. thickn.	HB	class	UL 94
Flammability @3.2mm nom. thickn.	HB	class	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	410 - 446	°F
Zone3 temperature	428 - 464	°F
Melt temperature	446 - 482	°F
Mold temperature	86 - 140	°F

