



TECHNICAL DATASHEET

NPC 12 FR HF 7035 UV

Polycarbonate injection molding type | Colour: Light grey / V-0 Halogen Free FR- UV stabilized

Property	Method	Measurement condition	Unit	Values
Melt flow rate	ISO 1133	300 °C; 1,2 kg	g /10 min	12
Izod Impact Strength at 23 °C	ISO 180	notched	kJ/m ²	18
Tensile Modulus	ISO 527-1	1 mm/min	MPa	2350
Tensile strength	ISO 527-1	5 mm/min	MPa	55
Flexural-modulus	ISO 527-1	2 mm/min	MPa	2300
Heat Deflection Temperature	ISO 75A	A	°C	140
Vicat Temperature	ISO 306	50N; 50°C/h	°C	142
Shore hardness	ISO 868	D		78
Density	ISO 1183-1	method A	g/cm ³	1,21
Burning Behavior	UL - 94	1,6	mm	V-0
Moldschrinkage	Inhouse method		%	0,3-0,7

Application data

Description	PolyCarbonate with good flow, non-brominated flame retardent in light grey RAL 7035 color and UV- stabilized
Application	Injection Moulding
Drying conditions	120 °C , 4-6 hours moisture content < 0,02%
Moulding temperature - Nozzle	280 - 320 °C
Moulding temperature - Barrel	270 - 320 °C
Mold Temperature	80 - 120 °C
Compression ratio	2:1 - 2,5:1
Injection Pressure	Low
Injection Speed	Fast ram speed
Hold pressure	Low
Screw speed	0,1 - 0,2 m/s
Cushion	4 - 6 mm
Back pressure	0 - 1,0 MPa

This information contained in this document is based on testing carried out by our laboratory. To the best of our knowledge and at the time of publication, this information is true and accurate. It shall however, in no event be held to constitute or imply warranty, undertaking express or implied commitment from the part of supplier. No liability whatsoever can be accepted by supplier with regard to the handling, processing or use of the product concerned which must in all cases be used in accordance with all applicable laws and regulations. Material is conform RoHS and Reach regulations and without heavy metals rev.date 28 03 2017.

Document version 1 | Release date: December 2020.