

ISO 1043

ISO 11357-1/-3

IEC 60695-11-10

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ISO 3795 (FMVSS 302)

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UL 94

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Delrin® FGDE7057 NC010 (PRELIMINARY)

ACFTAL RESIN

Product information
Resin Identification

Melting temperature, 10°C/min

Burning Behav. at thickness h

Burning rate, Thickness 1 mm

Burning Behav. at 1.5mm nom. thickn.

Flammability

Thickness tested

Thickness tested

UL recognition

FMVSS Class

UL recognition

Delrin® FGDE7057 NC010 is a Nucleated Medium Viscosity Acetal Homopolymer with Improved Processing. It has been developed for applications in contact with food.

POM

178 °C

HB class

1.5 mm

HB class

0.75 mm

yes -

yes -

B -

<80 mm/min

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Part Marking Code	>POM<		ISO 11469
Rheological properties			
Melt mass-flow rate	15	g/10min	ISO 1133
Melt mass-flow rate, Temperature	190	°C	ISO 1133
Melt mass-flow rate, Load	2.16	kg	ISO 1133
Moulding shrinkage, parallel	1.8	%	ISO 294-4, 2577
Moulding shrinkage, normal	1.7	%	ISO 294-4, 2577
Typical mechanical properties			
Tensile Modulus	3400	MPa	ISO 527-1/-2
Yield stress	75	MPa	ISO 527-1/-2
Yield strain	12	%	ISO 527-1/-2
Nominal strain at break	27	%	ISO 527-1/-2
Charpy notched impact strength, 23°C	7	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C	8	kJ/m²	ISO 180/1A
Poisson's ratio	0.37	-	
Thermal properties			

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Delrin® FGDE7057 NC010 (PRELIMINARY)

ACETAL RESIN

Other properties

Density 1420 kg/m³ ISO 1183

Emissions

Fogging, G-value (condensate)

0.1 mg ISO 6452

Injection

Drying Recommended Drying Temperature	yes 80	°C
Drying Time, Dehumidified Dryer	2 - 4	h
Processing Moisture Content	≤0.2	%
Melt Temperature Optimum	215	°C
Min. melt temperature	210	°C
Max. melt temperature	220	°C
Max. screw tangential speed	0.3	m/s
Mold Temperature Optimum	90	°C
Min. mould temperature	80	°C
Max. mould temperature	100	°C
Hold pressure range	80 - 100	MPa
Hold pressure time	7.5	s/mm
Annealing time, optional	30	min/mm
Annealing temperature	160	°C

Additional Information

Injection molding

Drying is recommended, but not necessary for newly opened packaging stored in a dry location.

Follow the drying guidelines above in the following cases:

- · If moisture is above the Processing Moisture Content recommendation,
- · When a resin container is damaged,
- \cdot When the material is not properly stored in a dry place at room temperature, or
- · When packaging stays open for a significant time.

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The above data are preliminary and are subject to change as additional data are developed on subsequent lots.

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