

DuPont™ Delrin® DE7057 NC010

ACETAL RESIN

Product Information

Delrin® DE7057 NC010 is a Nucleated Medium Viscosity Acetal Homopolymer with Improved Processing

General information		Value	Unit	Test Standard
Resin Identification		POM	-	ISO 1043
Part Marking Code		POM	-	ISO 11469
Rheological properties		Value	Unit	Test Standard
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
Mechanical properties		Value	Unit	Test Standard
Tensile Modulus		3400	MPa	ISO 527-1/-2
Yield stress		73	MPa	ISO 527-1/-2
Yield strain		12	%	ISO 527-1/-2
Nominal strain at break		25	%	ISO 527-1/-2
Izod notched impact strength, 23°C		8	kJ/m²	ISO 180/1A
Thermal properties		Value	Unit	Test Standard
Melting temperature, 10°C/min		178	°C	ISO 11357-1/-3
RTI, electrical				UL 746B
0.75mm		50	°C	
1.5mm		110	°C	
3mm		110	°C	
RTI, impact				UL 746B
0.75mm		50	°C	
1.5mm		85	°C	
3mm		90	°C	
RTI, strength				UL 746B
0.75mm		50	°C	
1.5mm		90	°C	
3mm		95	°C	
Flammability		Value	Unit	Test Standard
Burning Behav. at 1.5mm nom. thickn.		HB	class	IEC 60695-11-10
Thickness tested		1.5	mm	IEC 60695-11-10
UL recognition		yes	-	UL 94
Burning Behav. at thickness h		HB	class	IEC 60695-11-10
Thickness tested		0.75	mm	IEC 60695-11-10
UL recognition		yes	-	UL 94
FMVSS Class		B	-	ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm			mm/min	ISO 3795 (FMVSS 302)
Other properties		Value	Unit	Test Standard
Density		1420	kg/m³	ISO 1183
VDA Properties		Value	Unit	Test Standard
Emissions			mg/kg	VDA 275
Fogging, G-value (condensate)		0.1	mg	ISO 6452
Injection		Value	Unit	Test Standard
Drying Recommended		yes		-
Drying Temperature		≥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	-
Mold Temperature Optimum		90	°C	-
Min. mould temperature		80	°C	-

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To find out more, visit [DuPont Performance Polymers](#) or contact nearest DuPont location.

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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	-

Characteristics

Processing	• Injection Moulding
Delivery form	• Pellets

Processing Texts

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,
- When the material is not properly stored in a dry place at room temperature, or
- When packaging stays open for a significant time.

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc. ISO Mechanical properties measured at 4mm (Hytrel® measured at 2 mm), IEC Electrical properties measured at 2mm, all ASTM properties measured at 3.2mm, and test temperatures are 23°C unless otherwise stated.

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