

Delrin® 527UVE NC010

ACETAL RESIN

DuPont Performance Polymers

Message:

UV Stabilized Medium Viscosity Acetal Homopolymer with Very Low Emissions

General Information			
Additive	Mold Release		
	UV Stabilizer		
Forms	Pellets		
Processing Method	Injection Molding		
Part Marking Code (ISO 11469)	>POM<		
Resin ID (ISO 1043)	POM		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	15	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	13.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.9	%	
Flow	2.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3100	MPa	ISO 527-2
Tensile Stress (Yield)	72.0	MPa	ISO 527-2
Tensile Strain (Yield)	17	%	ISO 527-2
Nominal Tensile Strain at Break	27	%	ISO 527-2
Flexural Modulus	3000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	8.0	kJ/m ²	
23°C	9.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	270	kJ/m ²	
23°C	280	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	165	°C	ISO 75-2/B
1.8 MPa, Unannealed	93.0	°C	ISO 75-2/A
Melting Temperature ¹	178	°C	ISO 11357-3

CLTE			ISO 11359-2
Flow	1.1E-4	cm/cm/°C	
Transverse	1.1E-4	cm/cm/°C	
Additional Information	Nominal Value	Unit	Test Method
Emission	< 2.00	mg/kg	VDA 275
NOTE			
1.	10°C/min		

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