Delrin® 300PE BK602

ACETAL RESIN

DuPont Performance Polymers

Message:

Medium-high Viscosity Acetal Homopolymer with Very Low Emissions

General Information			
Additive	Mold Release		
Forms	Pellets		
Processing Method	Injection Molding		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1) Shear Stress vs. Shear Rate (ISO 11403-1) Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)	>POM<		
Resin ID (ISO 1043)	POM		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.42	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.0	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	6.00	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.8	%	
Flow	2.0	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			ISO 2039-2
M-Scale	93		
R-Scale	121		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3300	MPa	ISO 527-2
Tensile Stress (Yield)	72.5	MPa	ISO 527-2
Tensile Strain (Yield)	16	%	ISO 527-2
Nominal Tensile Strain at Break	35	%	ISO 527-2
Flexural Modulus	3100	MPa	ISO 178
Flexural Stress (3.5% Strain)	84.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	10	kJ/m²	
23°C	10	kJ/m²	

Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	230	kJ/m²	
23°C	280	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	99.0	°C	ISO 75-2/A
Melting Temperature [1]	178	°C	ISO 11357-3
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	3.0E+14	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength	43	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.90		
1 MHz	3.90		
Dissipation Factor			IEC 60250
100 Hz	1.0E-3		
1 MHz	5.5E-3		
Comparative Tracking Index	600	V	IEC 60112
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Emission	< 2.00	mg/kg	VDA 275
NOTE			
1.	10°C/min		

Recommended distributors for this material

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