Delrin® 100PE BK602

ACETAL RESIN

DuPont Performance Polymers

Message:

High Viscosity Acetal Homopolymer with Very Low Emissions

General Information			
Additive	Mold Release		
Uses	Profiles Sheet		
Forms	Pellets		
Processing Method	Extrusion Injection Molding Profile Extrusion Sheet Extrusion		
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)	2.6	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	2.20	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.8	%	
Flow	2.2	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			ISO 2039-2
M-Scale	92		
R-Scale	120		
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)	21	%	ISO 527-2
Nominal Tensile Strain at Break	32	%	ISO 527-2
Flexural Modulus	2900	MPa	ISO 178
Flexural Stress (3.5% Strain)	80.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA

-30°C	10	kJ/m²	
23°C	11	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	300	kJ/m²	
23°C	350	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	97.0	°C	ISO 75-2/A
Melting Temperature [1]	178	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	1.1E-4	cm/cm/°C	
Flow : -40 to 23°C	1.0E-4	cm/cm/°C	
Transverse	1.1E-4	cm/cm/°C	
Transverse : -40 to 23°C	1.0E-4	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	5.0E+13	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength	44	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.90		
1 MHz	3.90		
Dissipation Factor			IEC 60250
100 Hz	5.0E-4		
1 MHz	5.5E-3		
Comparative Tracking Index	600	V	IEC 60112
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Melt Density	1.19	g/cm³	
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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