

DuPont Performance Polymers Delrin® 100PE BK602 Acetal (POM) (Unverified Data**)

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Homopolymer, Unreinforced

Material Notes:

High Viscosity Acetal Homopolymer with Very Low Emissions Delrin 100PE BK602 (formerly DE20573) is a high viscosity acetal homopolymer an enhanced version of Delrin 100P with very low VOC emissions. It has a great combination of strength and toughness
Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Delrin-100PE-BK602-Acetal-POM-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	
	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.022 cm/cm	0.022 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.018 cm/cm	0.018 in/in	ISO 294-4 2577
Melt Flow	2.2 g/10 min	2.2 g/10 min	cm ³ /10min; ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	2.6 g/10 min	2.6 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	92	92	ISO 2039-2
Hardness, Rockwell R	120	120	ISO 2039-2
Tensile Strength, Yield	72.0 MPa	10400 psi	ISO 527-1/-2
Elongation at Break	32 %	32 %	Nominal; ISO 527-1/-2
Elongation at Yield	21 %	21 %	ISO 527-1/-2
Tensile Modulus	3.10 GPa	450 ksi	ISO 527-1/-2
Flexural Strength	80.0 MPa	11600 psi	ISO 178
	@Strain 3.50 %	@Strain 3.50 %	
Flexural Modulus	2.90 GPa	421 ksi	ISO 178
Charpy Impact Unnotched	35.0 J/cm ²	167 ft-lb/in ²	ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179/1eA
Charpy Impact, Notched	1.10 J/cm ²	5.23 ft-lb/in ²	ISO 179/1eA
	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	110 µm/m-°C	61.1 µin/in-°F	ISO 11359-1/-2
	100 µm/m-°C	55.6 µin/in-°F	ISO 11359-1/-2
	@Temperature -40.0 - 23.0 °C	@Temperature -40.0 - 73.4 °F	
CTE, linear, Transverse to Flow	110 µm/m-°C	61.1 µin/in-°F	ISO 11359-1/-2
	100 µm/m-°C	55.6 µin/in-°F	ISO 11359-1/-2
	@Temperature -40.0 - 23.0 °C	@Temperature -40.0 - 73.4 °F	
Melting Point	178 °C	352 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	97.0 °C	207 °F	ISO 75-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 60093
Surface Resistance	5.00e+13 ohm	5.00e+13 ohm	IEC 60093
Dielectric Constant	3.9	3.9	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	3.9	3.9	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	44.0 kV/mm	1120 kV/in	IEC 60243-1
Dissipation Factor	0.00050	0.00050	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0055	0.0055	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

Electrical Properties	Metric	English	Comments
Descriptive Properties	Value		Comments
Additives	Release agent		
Delivery Form	Pellets		
Emissions	<2 mg/kg		VDA 275
Part Marking Code	>POM<		ISO 11469
Processing	Injection Moulding		
	Other Extrusion		
	Profile Extrusion		
	Sheet Extrusion		
Regional Availability	Asia Pacific		
	Europe		
	Global		
	Near East/Africa		
	North America		
	South and Central America		
Resin Identification	POM		ISO 1043

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