

DuPont Performance Polymers Delrin® 127UVE RD402 Acetal Homopolymer (Unverified Data**)

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

Delrin® 127UVE RD402 (formerly DE20555) is a high viscosity acetal homopolymer with UV stabilizers having extremely low VOC emissions, developed for automotive interior applications. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Delrin-127UVE-RD402-Acetal-Homopolymer-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Melt Flow	2.5 g/10 min @Load 2.16 kg, Temperature 190 °C	2.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133
Melt Index of Compound	2.1 g/10 min	2.1 g/10 min	cm ³ /10 min; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	71.5 MPa @Temperature 23.0 °C	10400 psi @Temperature 73.4 °F	ISO 527
Elongation at Break	50 % @Temperature 23.0 °C	50 % @Temperature 73.4 °F	nominal; ISO 527
	65 % @Temperature 23.0 °C	65 % @Temperature 73.4 °F	50mm/min; ISO 527
Elongation at Yield	28 % @Temperature 23.0 °C	28 % @Temperature 73.4 °F	ISO 527
Tensile Modulus	2.90 GPa @Temperature 23.0 °C	421 ksi @Temperature 73.4 °F	ISO 527
Flexural Modulus	2.80 GPa @Temperature 23.0 °C	406 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	1.40 J/cm ² @Temperature 23.0 °C	6.66 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	178 °C	352 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	94.0 °C	201 °F	ISO 75-1/-2

Processing Properties	Metric	English	Comments
Melt Temperature	205 °C	401 °F	Optimum; Injection Molding
	200 - 210 °C	392 - 410 °F	Injection Molding
Mold Temperature	90.0 °C	194 °F	optimum; Injection Molding
	80.0 - 100 °C	176 - 212 °F	Injection Molding
Drying Temperature	80.0 °C	176 °F	Injection Molding
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	Injection Molding
Moisture Content	<= 0.20 %	<= 0.20 %	Injection Molding

Descriptive Properties	Value	Comments
Forms	Pellets	
Generic	Acetal (POM) Homopolymer	
Material Status	Preliminary Data	
Part Marking Code	>POM<	ISO 11469
Polymer Family	POM	
Polymer Type	POM Homopolymer	
Processing Method	injection Molding	
Product Category	Low Emissions Resins	
	Unreinforced Resins	
	UV Resistant/Weatherable Resins	
Region Available - Global	Yes	
Resin Identification	POM	ISO 1043
RoHS Compliance	Contact Manufacturer	

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