

## DuPont Performance Polymers Delrin® 527UVE RD402 Acetal Homopolymer (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Acetal (POM)

### Material Notes:

Delrin® 527UVE RD402 (formerly DE20556) is a medium viscosity acetal homopolymer with UV stabilizers, pigmented red, 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-527UVE-RD402-Acetal-Homopolymer-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Delrin-527UVE-RD402-Acetal-Homopolymer-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.40 % @Temperature 23.0 °C	0.40 % @Temperature 73.4 °F	Immersion 24h; ISO 62, Similar to
Linear Mold Shrinkage, Flow	0.020 cm/cm @Thickness 2.00 mm	0.020 in/in @Thickness 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.019 cm/cm @Thickness 2.00 mm	0.019 in/in @Thickness 0.0787 in	ISO 294-4
Melt Flow	15 g/10 min @Load 2.16 kg, Temperature 190 °C	15 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133
Melt Index of Compound	13 g/10 min	13 g/10 min	cm <sup>3</sup> /10 min; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	73.0 MPa @Temperature 23.0 °C	10600 psi @Temperature 73.4 °F	ISO 527
Elongation at Break	30 % @Temperature 23.0 °C	30 % @Temperature 73.4 °F	nominal; ISO 527
	35 % @Temperature 23.0 °C	35 % @Temperature 73.4 °F	50mm/min; ISO 527
Elongation at Yield	15 % @Temperature 23.0 °C	15 % @Temperature 73.4 °F	ISO 527
Tensile Modulus	3.20 GPa @Temperature 23.0 °C	464 ksi @Temperature 73.4 °F	ISO 527

Mechanical Properties	Metric <sup>Pa</sup>	English	Comments
Flexural Modulus	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 178
Charpy Impact Unnotched	30.0 J/cm <sup>2</sup> @Temperature 23.0 °C	143 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.700 J/cm <sup>2</sup> @Temperature 23.0 °C	3.33 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	500 µm/m-°C	278 µin/in-°F	ISO 11359-1/-2
	@Temperature -40.0 - 23.0 °C	@Temperature -40.0 - 73.4 °F	
	500 µm/m-°C	278 µin/in-°F	
CTE, linear, Transverse to Flow	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	ISO 11359-1/-2
	500 µm/m-°C	278 µin/in-°F	ISO 11359-1/-2
	@Temperature 55.0 - 100 °C	@Temperature 131 - 212 °F	
90.0 µm/m-°C	50.0 µin/in-°F		
Melting Point	@Temperature -40.0 - 23.0 °C	@Temperature -40.0 - 73.4 °F	ISO 11359-1/-2
	110 µm/m-°C	61.1 µin/in-°F	ISO 11357-1/-3
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
140 µm/m-°C	77.8 µin/in-°F		
Deflection Temperature at 1.8 MPa (264 psi)	@Temperature 55.0 - 100 °C	@Temperature 131 - 212 °F	ISO 11359-1/-2
	178 °C	352 °F	10°C/min; ISO 11357-1/-3
	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 Processing Properties	80.0 °C Metric	176 °F English	Injection Molding Comments
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
Appearance	Red Color	
Forms	Pellets	
Generic	POM	
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	
Uses	automotive interior applications	

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