

DuPont Performance Polymers Delrin® 100TE NC010 Acetal (POM) (Unverified Data**)

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

Material Notes:

Toughened High Viscosity Acetal Homopolymer with Very Low Emissions Delrin 100TE NC010 (formerly DE20580) is a high viscosity toughened acetal homopolymer with very low VOC emissions. Processing methods include injection molding. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Delrin-100TE-NC010-Acetal-POM-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.016 cm/cm	0.016 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.017 cm/cm	0.017 in/in	ISO 294-4 2577
Melt Flow	2.0 g/10 min	2.0 g/10 min	cm ³ /10min; ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	2.2 g/10 min	2.2 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	54.0 MPa	7830 psi	ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	Nominal; ISO 527-1/-2
Elongation at Yield	25 %	25 %	ISO 527-1/-2
Tensile Modulus	1.85 GPa	268 ksi	ISO 527-1/-2
Flexural Strength	51.0 MPa	7400 psi	ISO 178
	@Strain 3.50 %	@Strain 3.50 %	
Flexural Modulus	1.85 GPa	268 ksi	ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	2.50 J/cm ²	11.9 ft-lb/in ²	ISO 179/1eA
	1.40 J/cm ²	6.66 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	120 µm/m-°C	66.7 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	120 µm/m-°C	66.7 µin/in-°F	ISO 11359-1/-2
Melting Point	178 °C	352 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	126 °C	259 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	71.0 °C	160 °F	ISO 75-1/-2

Descriptive Properties	Value	Comments
Additives	Lubricants	
	Release agent	
Delivery Form	Pellets	
Emissions	<2 mg/kg	VDA 275
Part Marking Code	>POM-I<	ISO 11469
Processing	Blow Moulding	
	Coatable	
	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-I	ISO 1043

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