

Com

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Legend (Open)

Delrin® 527UV BK701

DuPont Engineering Polymers - Acetal (POM) Homopolymer

Unit System: English



General Information

Product Description

Delrin® 527UV BK701 is a medium viscosity black acetal homopolymer resin with UV stabilizers developed for automotive interior applications. It has improvements in UV aging characteristics and thermal stability over Delrin® 507

Commercial: Active
Asia PacificEuropeNorth America
UV Stabilizer
 UV Resistance, Viscosity, Medium Good
Parts, Engineering
Contact Manufacturer
Black
 Pellets
Extrusion Injection Molding
• >POM<
• POM

ASTM and ISO Properties

Nominal Value	Unit	Test Method
1.41	g/cm³	ISO 1183
15	g/10 min	ISO 1133
1.8	%	ISO 294-4
Nominal Value	Unit	Test Method
464000	psi	ISO 527-1, -2
10300	psi	ISO 527-1, -2
14	%	ISO 527-1, -2
35	%	ISO 527-1, -2/50
23	%	ISO 527-1, -2
435000	psi	ISO 178
Nominal Value	Unit	Test Method
		ISO 179/1eA
3.33	ft • lb/in²	
4.28	ft • lb/in²	
3.33	ft • lb/in²	ISO 180/1A
		Test Method
325	° F	ISO 75B-1, -2
198	° F	ISO 75A-1, -2
352	° F	ISO 3146
		ISO 11359-1, -2
0.000061	in/in/ $^{\circ}$ F	
0.000052	in/in/° F	
0.000078	in/in/° F	
		ISO 11359-1, -2
0.000061	in/in/° F	
0.000054	in/in/° F	
0.00000	: /: /°	
0.000089	in/in/ F	
Nominal Value		Test Method
		Test Method UL 94
Nominal Value		
	1.41 15 1.8 Nominal Value 464000 10300 14 35 23 435000 Nominal Value 3.33 4.28 3.33 Nominal Value 325 198 352 0.000061 0.000052 0.000078	Nominal Value Unit 1.41 g/cm³ 15 g/10 min 1.8 % Nominal Value Unit 464000 psi 10300 psi 14 % 35 % 23 % 435000 psi Nominal Value Unit 3.33 ft • lb/in² 4.28 ft • lb/in² 4.28 ft • lb/in² 4.28 ft • lb/in² 5 % Nominal Value Unit 325 ° F 198 ° F 198 ° F 198 ° F 0.000061 in/in/° F 0.000078 in/in/° F 0.000078 in/in/° F

HB

(0.236 in)

Flammability Classification

IEC 60695-11-10, -20

(0.0331 in)	НВ
(0.0591 in)	НВ
(0.118 in)	НВ
(0.236 in)	НВ

Nominal Value Unit	Test Method
	UL 746
122 ° F	
122 ° F	
122 ° F	
	UL 746
122 ° F	
122 ° F	
122 ° F	
	UL 746
122 ° F	
122 ° F	
122 ° F	
	122 ° F 122 ° F 122 ° F 122 ° F 122 ° F 122 ° F 122 ° F

Additional Properties

The value listed as Melting Temperature, ISO 3146, was tested in accordance with ISO 11357-1/-3.

Processing Information

Injection	Nominal Value Unit
Drying Temperature	176 ° F
Drying Time	2.0 to 4.0 hr
Suggested Max Moisture	0.20 %
Processing (Melt) Temp	410 to 428 ° F
Mold Temperature	176 to 212 ° F

Injection Notes

Drying Recommended: Not normally required unless moisture content of resin exceeds recommended level

Drying Time, Dehumidified Dryer: 2-4 hr Optimum Melt Temperature: 215 ° C Optimum Mold Temperature: 90 ° C

Notes

¹ Typical properties: these are not to be construed as specifications.



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