



Durez 25378 Black is a two stage heat resistant / electrical grade molding material having an excellent molded finish, low shrinkage and good heat resistance. Durez 25378 has exceptional U.L. flammability ratings and good comparative tracking index.

Revision Date Jul 10, 2017

Plasticities available for compression, transfer, and injection molding.

Form of Material Granular Feeding & Preforming Good Storage Life One Year

PHENOLIC

Typical Properties		Compression		Injection Grade	
		International Units	English Units	International Units	English Units
Physical	Specific Gravity (D792)	1.61	1.61	1.61	1.61
	Apparent Density (D1895)	0.68 g/cc	0.68 g/cc	0.68 g/cc	0.68 g/cc
	Molding Shrinkage* (D6289)	0.004 m/m	0.004 in/in	0.0085 m/m	0.0085 in/in
	Water Absorption (D570)	0.20 %	0.20 %	0.20 %	0.20 %
Mechanical	Tensile Strength (D638)	45 Mpa	6,500 psi	54 Mpa	7,800 psi
	Flexural Strength (D790)	69 Mpa	10,000 psi	90 Mpa	13,000 psi
	Compressive Strength (D695)	158 Mpa	23,000 psi	165 Mpa	24,000 psi
	Tensile Modulus (D638)	10.3 Gpa	1.5 x10 ⁶ psi	13.1 Gpa	1.9 x10 ⁶ psi
	Izod Impact (D256)	18.7 J/m	0.35 ft lb/in	18.7 J/m	0.35 ft lb/in
Thermal	Deflection Temperature (D648)	204 °C	400 °F	191 °C	375 °F
	UL Flammability (UL-94) @	0.51 mm	V - 0	0.51 mm	V - 0
	For complete UL Listing for this material refer to the UL web Site www.ul.com	1.5 mm	V - 0	1.5 mm	V - 0
	UL Temperature Index (Elect) @	3.3 mm	5VA	3.3 mm	5VA
Electrical	Dielectric Strength (D149)				
	Short Time	16.7 MV/m	425 V/mil	12.8 MV/m	325 V/mil
	Step by Step	12.8 MV/m	325 V/mil	9.8 MV/m	250 V/mil
	Dissipation Factor (D150)1 MHZ	.04	.04	.06	.06
	Dielectric Constant (D150)1 MHZ	4.9	4.9	5.6	5.6
	Volume Resistivity(ohms)(D257)	1.0 x10 ¹⁰ m	1.0 x10 ¹² cm	1.0 x10 ¹⁰ m	1.0 x10 ¹² cm

Properties determined with test specimens molded at 340-350°F *Typical transfer-molded shrinkage is .0050 in/in or m/m

Other Properties

IEC Tracking Index (CTI) 220 Volts
ASTM D-495 Arc Resistance 180 Sec.

RoHS2 (2011/65/EU) Compliant
REACH (EC 1907/2006) SVHC / Annex XIV Compliant
HR4173 Sec.1502 Conflict Materials Compliant
Halogen Free

Shelf life- Minimum one year at typical ambient conditions.

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