



Durez 152 Phenolic is a two-stage, heat resistant/ electrical molding material. It exhibits superior dimensional stability, good strength retention at elevated temperature and good molded appearance and machinability which account for it's widespread use on electrical, telecommunication and appliance applications.

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)	1.50	1.50	1.50	1.50	
	Apparent Density (D1895)	0.68 g/cc	0.68 g/cc	0.68 g/cc	0.68 g/cc	
	Molding Shrinkage* (D6289)	0.006 m/m	0.006 in/in	0.0100 m/m	0.0100 in/in	
	Water Absorption (D570)	0.30 %	0.30 %	0.30 %	0.30 %	
Mechanical	Tensile Strength (D638)	48 Mpa	7,000 psi	62 Mpa	9,000 psi	
	Flexural Strength (D790)	76 Mpa	11,000 psi	83 Mpa	12,000 psi	
	Compressive Strength (D695)	207 Mpa	30,000 psi	207 Mpa	30,000 psi	
	Tensile Modulus (D638)	9.6 Gpa	1.4 x10 ⁶ psi	9.0 Gpa	1.3 x10 ⁶ psi	
	Izod Impact (D256)	16.0 J/m	0.30 ft lb/in	14.9 J/m	0.28 ft lb/in	
Thermal	Deflection Temperature (D648)	191 °C	375 °F	191 °C	375 °F	
	UL Flammability (UL-94) @	1.5 mm	V - 1	1.5 mm	V - 1	
		For complete UL Listing for this material refer to the UL web Site www.ul.com	3.0 mm	V - 0	3.0 mm	V - 0
		6.0 mm	V - 0	6.0 mm	V - 0	
UL Temperature Index (Elect) @	3.0 mm	160 °C		160 °C		
Electrical	Dielectric Strength (D149)					
	Short Time	14.7 MV/m	375 V/mil	13.8 MV/m	350 V/mil	
	Step by Step	12.8 MV/m	325 V/mil	10.8 MV/m	275 V/mil	
	Dissipation Factor (D150)1 MHZ	.05	.05	.05	.05	
	Dielectric Constant (D150)1 MHZ	5.0	5.0	5.2	5.2	
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 0.008 in/in or m/m

Other Properties

IEC Tracking index (CTI): 190 V.
 Durez 152 is Fungus resistant per Mil-I-631D and Mil-E-5272C.
 ASTM D-5948 (former Mil-M-14G), Type CFG certification requires batch testing

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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