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Durez 32962 Black Phenolic is a medium impact, molding compound. It is designed for applications where additional mechanical strength is required. Typical applications include appliance housings where strength and appearance are important.

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)	1.45	1.45	1.45	1.45
	Apparent Density (D1895)	0.58 g/cc	0.58 g/cc	0.58 g/cc	0.58 g/cc
	Molding Shrinkage* (D6289)	0.006 m/m	0.006 in/in	0.0090 m/m	0.0090 in/in
	Water Absorption (D570)	0.50 %	0.50 %	0.50 %	0.50 %
Mechanical	Tensile Strength (D638)	48 Mpa	7,000 psi	48 Mpa	7,000 psi
	Flexural Strength (D790)	76 Mpa	11,000 psi	76 Mpa	11,000 psi
	Compressive Strength (D695)	207 Mpa	30,000 psi	207 Mpa	30,000 psi
	Tensile Modulus (D638)	6.9 Gpa	1.0 x10 ⁶ psi	6.9 Gpa	1.0 x10 ⁶ psi
	Izod Impact (D256)	26.7 J/m	0.50 ft lb/in	21.4 J/m	0.40 ft lb/in
Thermal	Deflection Temperature (D648)	182 °C	360 °F	177 °C	350 °F
	UL Flammability (UL-94) @	1.5 mm	HB	1.5 mm	HB
	<small>For complete UL Listing for this material refer to the UL web Site www.ul.com</small>	3.0 mm	HB	3.0 mm	HB
	UL Temperature Index (Elect) @	6.0 mm	V - 0	6.0 mm	V - 0
Electrical	Dielectric Strength (D149)				
	Short Time	11.8 MV/m	300 V/mil	12.2 MV/m	310 V/mil
	Step by Step	9.8 MV/m	250 V/mil	8.8 MV/m	225 V/mil
	Dissipation Factor (D150)1 MHZ	0.06	0.06	0.08	0.08
	Dielectric Constant (D150)1 MHZ	6.0	6.0	6.5	6.5
	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 0.007 in/in or m/m

Other Properties

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