



MEGA RECYCLING
AND COMPOUNDING SERVICES LLC.

Mega PEI-GF30-BK

30% Glass Reinforced, Polyetherimide

TYPICAL PROPERTIES

PROPERTY	ASTM TEST METHOD	ENGLISH		S.I.	
		UNITS	VALUES	UNI TS	VALUES
Specific Gravity	D792	---	1.50	---	1.50
Heat Deflection Temperature 264 psi (1.82 MPa)	D648	°F	410	°C	210
Heat Deflection Temperature 66 psi (0.455 MPa)	D648	°F	415	°C	210
Mold Shrinkage Guideline (Flow Direction)	1/8" Section	%	.2-to.4	%	.2-to.4
Vicat Softening Temperature	D1525	°F	425	°C	220
Tensile Strength at Yield	D638	psi	22,000	MPa	85
Elongation at Break	D638	%	3	%	3
Flexural Strength	D790	psi	32,500	MPa	228
Flexural Modulus	D790	psi	1,200,000	MPa	8500
Izod Impact Strength (Notched, 1/8" specimen)	D256	ft-lb/in	1.3	J/m	80
Flammability, (1.9 mm)	UL94	---	5VA	---	5VA
Flammability, (0.5 mm)	UL94	---	V-0	---	V-0
Melt Flow Rate	D1238	g/10 min	8	g/10 - min	8
Water Absorption (24-hr)	D570	%	0.18	%	0.18
Coefficient of Thermal Expansion	D696	%/F	3.2X10-3	%/° C	5.5X10-3

This mechanical property test data has been developed using injection molded specimens tested under standardized conditions; furthermore, many of the mechanical properties of the thermoplastic materials can be influenced by changes in processing conditions, environmental factors such as temperature and humidity, and rate of application of stress. Therefore, these test results, which characterized typical production material, should not be used either to establish specification limits or alone as the basis for engineering design.

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