



MEGA RECYCLING
AND COMPOUNDING SERVICES LLC.

Product Data Sheet

MegaRe® PEI-2100-BK

10% Glass Reinforced Polyetherimide (PEI).

TYPICAL PROPERTIES

PROPERTY	ASTM TEST METHOD	ENGLISH		S.I.	
		UNITS	VALUES	UNITS	VALUES
Specific Gravity	D792	---	1.34	---	1.34
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	%	.4-to.6	In/in	.004-to-.006
Vicat Softening Temperature	D1525	°F	425	°C	220
Tensile Strength at Yield	D638	psi	16,000	MPa	115
Elongation at Break	D638	%	6	%	6
Flexural Strength	D790	psi	29,000	MPa	200
Flexural Modulus	D790	psi	750,000	MPa	5,300
Izod Impact Strength (Notched, 1/8" specimen)	D256	ft-lb/in	1.1	J/m	55
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	%	0.19	%	0.18
Coefficient of Thermal Expansion	D696	%/F	3.2X10-3	%/°C	5.5X10-3

Mechanical Properties measured at 23° C
Contact Mega Recycling for MSDS, general processing guidelines and/or additional information about verification, Handling, purging, drying, etc.

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