

Duron PEI 2100

Polyether Imide

ProPolymers Inc.

Message:

Duron PEI 2100 is a 10% glass filled polyetherimide that offers a superior combination of mechanical, electrical, and thermal properties. PEI is inherently flame resistant with low smoke emission. It provides outstanding processability and good chemical resistance.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Features	Low smoke		
	Workability, good		
	Good chemical resistance		
	Flame retardancy		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.34	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	7.0	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow: 3.18mm	0.40 - 0.60	%	ASTM D955
Transverse flow: 3.18mm	0.50 - 0.60	%	ASTM D955
Water Absorption (24 hr)	0.21	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	114		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	115	MPa	ASTM D638
Tensile Elongation (Yield)	6.0	%	ASTM D638
Flexural Modulus	4500	MPa	ASTM D790
Flexural Strength	185	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	210	°C	ASTM D648
1.8 MPa, not annealed	209	°C	ASTM D648
Vicat Softening Temperature	223	°C	ASTM D1525
CLTE - Flow	4.5E-5	cm/cm/°C	ASTM D696
Additional Information			

Notched Izod Impact, ASTM D256: 7 kJ/m²Unnotched Izod Impact, ASTM D256: 30 kJ/m²

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