

Duron PEI 1010

Polyether Imide

ProPolymers Inc.

Message:

Duron PEI 1010 is a high flow, general purpose 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			
Features	Low smoke Workability, good High liquidity Good chemical resistance General Flame retardancy		
Uses	General		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow: 3.18mm	0.50 - 0.80	%	ASTM D955
Transverse flow: 3.18mm	0.60 - 0.90	%	ASTM D955
Water Absorption (24 hr)	0.25	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	109		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	105	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	60	%	ASTM D638
Fracture	7.0	%	ASTM D638
Flexural Modulus	3200	MPa	ASTM D790
Flexural Strength	160	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	207	°C	ASTM D648
1.8 MPa, not annealed	200	°C	ASTM D648
Vicat Softening Temperature	219	°C	ASTM D1525
CLTE - Flow	5.0E-5	cm/cm/°C	ASTM D696
Additional Information			

Notched Izod Impact, ASTM D256: 5 kJ/m²Unnotched Izod Impact, ASTM D256: 140 kJ/m²

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