

Duron PEI 4001

Polyether Imide

ProPolymers Inc.

Message:

Duron PEI 4001 is a glass filled polyetherimide resin designed for wear resistance and reduced friction. It offers a superior combination of mechanical, electrical, and thermal properties. It provides outstanding processability and good chemical resistance.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Workability, good		
	Good chemical resistance		
	Good wear resistance		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	9.9	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow: 3.18mm	0.50 - 0.70	%	ASTM D955
Transverse flow: 3.18mm	0.50 - 0.70	%	ASTM D955
Water Absorption (24 hr)	0.16	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	95.0	MPa	ASTM D638
Tensile Elongation (Break)	8.0	%	ASTM D638
Flexural Modulus	3000	MPa	ASTM D790
Flexural Strength	125	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	200	°C	ASTM D648
1.8 MPa, not annealed	195	°C	ASTM D648
Vicat Softening Temperature	208	°C	ASTM D1525
CLTE - Flow	4.0E-5	cm/cm/°C	ASTM D696
Additional Information			

Notched Izod Impact, ASTM D256: 10 kJ/m²Unnotched Izod Impact, ASTM D256: 50 kJ/m²

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

