

Duron PPE/PA 830

Polyamide + PPE

ProPolymers Inc.

Message:

Duron PPE/PA 830 is a 30% glass reinforced polyamide that is reinforced with a modified polyphenylene ether polymer. This combination provides improved dimensional stability and heat resistance compared to conventional nylon. It is lubricated which improves mold release and surface finish. Duron PA provides outstanding processability and chemical resistance.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	Lubricant		
Features	Good dimensional stability		
	Workability, good		
	Good chemical resistance		
	Heat resistance, medium		
	Lubrication		
	Good demoulding performance		
	Excellent appearance		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 3.18mm	0.20 - 0.30	%	ASTM D955
Transverse flow: 3.18mm	0.70 - 0.80	%	ASTM D955
Water Absorption (24 hr)	0.70	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	101		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	152	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	7.0	%	ASTM D638
Flexural Modulus (23°C)	8580	MPa	ASTM D790
Flexural Strength (23°C)	248	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	254	°C	ASTM D648
1.8 MPa, not annealed	241	°C	ASTM D648
Melting Temperature	249	°C	
CLTE - Flow	2.5E-5	cm/cm/°C	ASTM D696

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