

Duron PPE/PA 820

Polyamide + PPE

ProPolymers Inc.

Message:

Duron PPE/PA 820 is a 20% 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,20% Filler by Weight		
Additive	Lubricant		
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Mold Release		
	Good Processability		
	Good Surface Finish		
	Lubricated		
	Medium Heat Resistance		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 3.18 mm	0.40 to 0.60	%	
Across Flow : 3.18 mm	0.70 to 0.80	%	
Water Absorption (24 hr)	0.70	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	119		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	117	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	7.0	%	ASTM D638
Flexural Modulus (23°C)	5960	MPa	ASTM D790
Flexural Strength (23°C)	194	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, Unannealed	254	°C	
1.8 MPa, Unannealed	232	°C	
Melting Temperature	249	°C	
CLTE - Flow	3.5E-5	cm/cm/°C	ASTM D696

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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

