

# Duron PBT 850

Polybutylene Terephthalate

ProPolymers Inc.

## Message:

Duron PBT 850 is a general purpose molding grade PBT that offers a superior combination of mechanical, electrical, and thermal properties. It is lubricated which improves mold release and surface finish. Duron PBT provides outstanding processability and good chemical resistance.

General Information			
Additive	Lubricant		
Features	General Purpose		
	Good Chemical Resistance		
	Good Mold Release		
	Good Processability		
	Good Surface Finish		
	Lubricated		
Uses	General Purpose		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 1.52 mm	0.90 to 1.6	%	
Flow : 3.18 mm	1.5 to 2.3	%	
Across Flow : 1.52 mm	1.0 to 1.7	%	
Across Flow : 3.18 mm	1.6 to 2.4	%	
Water Absorption (24 hr)	0.080	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	117		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	52.0	MPa	ASTM D638
Tensile Elongation (Break)	300	%	ASTM D638
Flexural Modulus	2350	MPa	ASTM D790
Flexural Strength	83.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	154	°C	
1.8 MPa, Unannealed	54.0	°C	
Melting Temperature	225	°C	

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#### Recommended distributors for this material

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