EnCounter 2012

PET

Product Description
Polyester Copolymer

General Properties	
Appearance	Clear
Processing Methods	Extrusion Blow Molding, Injection Molding
Applications	Molded parts requiring excellent clarity and chemical resistance

Mechanical Properties	Test Method	English Units		S.I. Units	
Tensile Strength @ Yield	ASTM D638	7,690	psi	53	MPa
Tensile Modulus	ASTM D638	230,000	psi	1586	MPa
Tensile Elongation at Break	ASTM D638	140	%	140	%
Flexural Modulus	ASTM D790	230,000	psi	1,586	MPa
Flexural Strength	ASTM D790	9,570	psi	66	MPa
Notched Izod Impact (73°F)	ASTM D256	12.0	ft-lb/in	641	J/m
Notched Izod Impact (-40°F)	ASTM D256	2.4	ft-lb/in	128	J/m
Un-notched izod	ASTM D256	No Break	ft-lb/in	no break	J/m

Physical Properties	Test Method	English Units		S.I. Units	
Specific Gravity	ASTM D792	1.17	sp gr	1.17	sp gr
Mold Shrink - Flow: 0.126 in (3.20 mm)	ASTM D955	0.005 - 0.007	in/in	0.005 - 0.007	mm/mm
Rockwell Hardness (R-Scale)	ASTM D785	115 R		115 R	

Thermal Properties	Test Method	English Units		S.I. Units	
Heat Deflection Temperature @ 66 psi	ASTM D648	228	°F	109	°C
Heat Deflection Temperature @ 264 psi	ASTM D648	198	°F	92	°C

Injection Molding	Value	
Drying Temperature	190	°F
Drying Time	4.0 - 6.0	hrs
Melt (processing) Temperatures	500 - 540	°F
Mold Temperatures	100 - 151	°F

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