AQUA PE-RT -HYPERTHERM 2399 NT BIODAL POLYETHYLENE

PHYSICAL	NOMINAL VALUE ENGLISH	NOMINAL VALUE (SI)	TEST METHOD
DENSITY	*0.950 G/CM3*	*0.950 G/CM3*	*ASTM D-1505*
BASE DENSITY MELT MASS-FLOW RATE 190°C / 2.16 KG 190°C / 2.16 KG	*0.950 G/CM3* *0.10 G/10 MIN* *7.0 G/10 MIN*	*0.950 G/CM3* *0.10 G/10 MIN* *7.0 G/10 MIN*	*DOW METHOD* *ASTM D-1505*
MECHANICAL	**NOMINAL VALUE ENGLISH**	**NOMINAL VALUE (SI)**	**TEST METHOD**
TENSILE STRENGTH AT YEILD	*>3500 PSI*	*>24.1 MPA*	*3200*
TENSILE ELONGATION (BREAK)	*>500 %*	*>500%*	*850*
FLEXURAL MODULAS	*152,000 PSI*	*1050 MPA*	*120,000*
RESISTANCE TO RAPID CRACK PROPAGATION, PC-S-4	-	-	*ISO 13477*
32°F (0°C)	*>174 PSI*	*>12.0 BAR*	-
RESISTANCE TO RAPID CRACK PROPAGATION, TC-S-4 AT 145 PSI (10 BAR)	*< 2°F*	*<-17°C*	*ISO 13477*
SLOW CRACK GROWTH PENT - AT 2.4 MPA	-	-	*ASTM 1473*
176°F (80°C)	*>12000 HR*	*>12000 HR*	
194°F (90°C)	*>6000 HR*	*>6000 HR*	
IMPACT	**NOMINAL VALUE ENGLISH**	**NOMINAL VALUE (SI)**	**TEST METHOD**
NOTCHED IZOD IMPACT 73°F (23°C)	*9.1 FT.LB/IN*	*490 J/M*	*ASTM D256A*

OIL CREEK PLASTICS TYPICAL MATERIAL PROPERTIES

AQUA PE-RT - HYPERTHERM 2399 NT BIODAL POLYETHYLENE

THERMAL	NOMINAL VALUE ENGLISH	NOMINAL VALUE (SI)	TEST METHOD
BRITTLENESS TEMPERATURE	*< 103°F*	*< -75.0°C*	*ASTM D746A*
MELTING TEMPERATURE (DSC)	*269°F*	*132°C*	*DOW METHOD*
THERMAL STABILITY	*> 428°F*	*> 220°C*	*ASTM D4450*
ADDITIONAL INFORMATION	**NOMINAL VALUE ENGLISH**	**NOMINAL VALUE (SI)**	**TEST METHOD**
CHLORINE RESISTANCE LEVEL	*5.00*	*5.00*	*ASTM F2023* *ASTM F2769*

OIL CREEK PLASTICS TYPICAL MATERIAL PROPERTIES