



# TECHNICAL DATA SHEET

## PUR70A

1730 NE Miller Street  
McMinnville, OR 97128  
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Physical Properties	Test Method	English Units	SI Units
Hardness Shore A	ASTM D 2240	72A	72A
Specific Gravity	ASTM D 792	1.06	1.06
Melt Flow Rate 190°C/8700g	ASTM D 1238	-- g/10 mg	11 g/10 mg
Taber Abrasion, Wt. Loss, 1000g wt 1-1000g, H-22 (coarser)	ASTM D 1044	-- mg	3 mg
Mold Shrinkage, Transverse direction	ASTM D 955	-0.3-0.8%	-0.3-0.8%
Mold Shrinkage, Flow Direction	ASTM D 955	0.4-0.5%	0.4-0.5%
<b>Mechanical Properties</b>			
Tensile Modulus 50% elongation 100% elongation 300% elongation	ASTM D 412	300 psi 440 psi 750 psi	2.1 MPa 3.0 MPa 5.2 MPa
Ultimate Elongation	ASTM D 412	730%	730%
Ultimate Tensile Strength	ASTM D 412	3580 psi	24.7 MPa
Elongation Set After Break	ASTM D 412	50%	50%
Tear Strength, Die C	ASTM D 624	380 PLI	66.5 KN/m
Compression Set, Method B 22 hrs @ 25°C 22 hrs @ 70°C	ASTM D 395	25% 75%	25% 75%
<b>Thermal Properties</b>			
Vicat Softening Point (120°C/hr, 9.8N)	ASTM D 1525	168°F	75.6°C
Glass Transition Temperature	DSC	-92°F	-69°C
CLTE, in-flow, -30 to -80°C	ASTM D 696	97 in/in/°F	175 mm/mm/°C
<b>Processing Conditions (Typical)</b>			
Drying Temperature (air dew point <-40C)		180-200°F	82-93°C
Melt Temperature (Molding)		380-410°F	193-210°C
Melt Temperature (Extrusion)		370-400°F	188-204°C
Mold Temperature		60-140°F	16-60°C

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