

PROFORMANCE[®]

ORTHO FLEX

NEW! ProFormance[®] Orthoflex is a clarified, flexible, and formable thermoplastic engineered specifically for orthotic and prosthetic applications. It offers excellent durability, an easy release surface, and forms across all standard processes, including drape form, blister form, vacuum etc. The thermoplastic can be easily seamed, making it ideal for custom fabrication.



FEATURES

- ✓ Ideal for BK/AK socket liners, AFO cushioning and shock absorbing, and other orthotic and prosthetic applications
- ✓ Great melt strength
- ✓ Available in Non-Stock Black and Stock Natural
- ✓ Zero Chemical Surfactants

SPECIFICATIONS

- Part Number(s): #PF-ORTHO-X-X
- Type: Thermoplastic
- Density: 0.952 (g/cm³)
- Color: Transparent
- Thickness: 0.06-0.625
- Temperature Recommendation: 250° F (*Ovens may vary*)

TECHNICAL INFORMATION

Material	SI Unit	ASTM	LDPE	LLDPE	MOD PE	HDPE	PPH	PPC	Orthoflex [®]
Melt Flow Rate	g/10 min	D 1238	2.0	.80	1.00	0.29	0.50	0.45	3.0
Density	g/cm3	D4883 D792B D1505	.919	.920	.930	.962	.900	.90	.952
Tensile Strength @ Yield	PSI	D 638	1500	2170	2500	4600	4900	4060	3580
Elongation @ Yield	%	D 638					13	11	
Elongation @ Break	%	D 638	650	700	600	>600			770
Flexural Modulus (1% sec)	PSI	D 790	35,000	40,000	52,000	225,000	200,000	162,000	2470
Deflection Temp. @ 66 psi	F	D 648		118			203	190	
Tensile Impact Notched Impact Dart Impact 1.5 mil Method A	ft-bs/in2 ft-lb/in2 G	D 1822 D 256A		120			1.3	No Break	
Brittleness Temp	F	D 746		< -43.6	-130	< -105			-121
DTLU	F	D 648		118					
Vicat Softening Point	F	D 1525	85	190	222	268			111
Flame Rating							HB	HB	

The information on this data table was furnished by the producers of the raw material. Your independent determination should be used to make sure the product is suitable for the intended use. The above does not constitute a warranty for a particular product use.