


OnForce™ LFT Compounds

Color	Specific Gravity g/cm ³ ASTM D792	Mold Shrink, Flow in/in ASTM D955	Tensile Modulus psi ASTM D638	Tensile Strength at Yield psi ASTM D638	Tensile Elongation at Break % ASTM D638	Flexural Modulus psi ASTM D790	Flexural Strength psi ASTM D790	Notched Izod Impact ft*lb/in ASTM D256	Unnotched Izod Impact ft*lb/in ASTM D790	HDT, 264 psi, Unannealed °F ASTM D648
-------	--	--	--	---	--	---	--	---	---	--

OnForce PA 6/6 (Nylon 6/6)

LFT NN-30LGF/000	Natural/ Black	1.37	0.0020 - 0.0030	1,500,000	26,500	2.0 - 3.0	1,400,000	41,000	5.0	26.0	480
LFT NN-40LGF/000	Natural/ Black	1.45	0.0010 - 0.0030	2,000,000	34,000	2.0 - 3.0	1,800,000	49,000	6.0	28.0	490
LFT NN-50LGF/000	Natural	1.60	0.0010 - 0.0030	2,600,000	40,000	1.0 - 2.0	2,400,000	56,800	6.5	28.0	490
LFT NN-60LGF/000	Natural	1.69	0.0010 - 0.0020	3,200,000	43,000	1.0 - 2.0	2,700,000	65,000	9.8	30.0	500

OnForce PP (Polypropylene)

LFT PP-30LGF/000	Natural/ Black	1.12	0.0020 - 0.0030	800,000	14,100	2.4	730,000	22,800	4.5	20.0	-
LFT PP-40LGF/000	Natural/ Black	1.21	0.0010 - 0.0030	1,100,000	15,300	2.0	960,000	25,600	6.0	22.0	305
THC -01 LFT PP -40LGF/000	Natural	1.21	0.0010 - 0.0030	1,100,000	15,300	2.0	960,000	25,600	6.0	22.0	305
LFT PP-50LGF/000	Natural	1.33	0.0010 - 0.0030	1,400,000	17,000	1.4	1,250,000	27,500	6.4	24.0	307
LFT PP-60LGF/000	Natural	1.48	0.0010 - 0.0020	1,600,000	17,000	1.0 - 2.0	1,500,000	27,000	6.4	22.0	307

OnForce TPU (Polyurethane)

LFT UR-30LGF/000	Natural/ Black	1.43	0.0010 - 0.0020	1,400,000	2,600	2.0 - 3.0	1,100,000	39,000	6.8	25.0	230
LFT UR-40LGF/000	Natural/ Black	1.51	0.0010 - 0.0020	1,600,000	32,000	2.0 - 3.0	1,600,000	44,500	6.9	27.0	235
LFT UR-50LGF/000	Natural/ Black	1.60	0.0010 - 0.0020	2,100,000	35,000	2.0 - 3.0	2,200,000	51,000	8.5	30.0	237
LFT UR-60LGF/000	Black	1.71	0.0005 - 0.0015	2,300,000	37,000	2.0 - 3.0	2,800,000	52,500	9.0	31.0	238

Processing Conditions

	Melt Temperature Range °F	Mold Temperature Range °F	Drying Temperature °F	Drying Time hours	Moisture Range %
OnForce PA 6/6 (Nylon 6/6)					
LFT NN-30LGF/000	540 - 570	180-250	180	4-6	0.10-0.18
LFT NN-40LGF/000					
LFT NN-50LGF/000					
LFT NN-60LGF/000					
OnForce PP (Polypropylene)					
LFT PP-30LGF/000	390 - 410	100 - 150	100	2	N/A
LFT PP-40LGF/000					
THC -01 LFT PP -40LGF/000					
LFT PP-50LGF/000					
LFT PP-60LGF/000					
OnForce TPU (Polyurethane)					
LFT UR-30LGF/000	400 - 430	110 - 160	180	4-5	0.015 - 0.02
LFT UR-40LGF/000					
LFT UR-50LGF/000					
LFT UR-60LGF/000					

Copyright © 2011, PolyOne Corporation. PolyOne makes no representations, guarantees, or warranties of any kind with respect to the information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the Information. PolyOne makes no warranties or guarantees respecting suitability of either PolyOne's products or the Information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the Information and/or use or handling of any product. POLYONE MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the Information or products reflected by the Information. This data sheet shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.