



The grades listed below are examples; there are 30+ developed grades. [Contact us](#) to determine the correct grade for your application.

		Standard Injection Molding Grades				
Property	Units	ET		YP	UT	HRM
		Slight	Elongation	Medium Elongation	High Elongation	High Rigidity Modified
<b>Physical</b>						
Specific Gravity			1.05	1.04	1.02	1.02
Melt Flow (200°C/5kg)	g/10min.		4.5	7	8.2	11
<b>Mechanical</b>						
Tensile Strength	psi (lb/in <sup>2</sup> )		6750	5370	4290	3700
Flex Modulus	psi (lb/in <sup>2</sup> )		366,000	325,000	269,000	220,000
Flex Strength Yield	psi (lb/in <sup>2</sup> )		9540	7870	6220	4,500
Elongation @ Break (.02in/min.)	%		11%	41%	116%	220%
Hardness	Shore D		78	70	70	70
<b>Thermal</b>						
HDT at 66 psi - unannealed, .125"	°F		185	173	168	170
<b>Appearance</b>						
Haze	%		1.0%	1.9%	2.0%	0.5%
Light Transmission	%		90%	89%	89%	91%
<b>Other</b>						
Mold Shrinkage	in/in		.003 - .006	.003 - .006	.003 - .006	.003 - .006
Drying	Hrs - °F		NO	NO	NO	NO

		Standard Extrusion/EBM Molding Grades				
Property	Units	MT	HR	HRM	HB	PSG 02 Impact Modifier
		Master Tough	High Rigidity		High Rubber	
<b>Physical</b>						
Specific Gravity		1.01	1.03	1.02	1.01	0.98
Melt Flow (200°C/5kg)	g/10min.	11	14	11	15	
<b>Mechanical</b>						
Tensile Strength Break	psi (lb/in <sup>2</sup> )	4,500	5,000	4,000	3,700	
Flex Modulus	psi (lb/in <sup>2</sup> )	200,000	270,000	220,000	128,000	
Flex Strength Yield	psi (lb/in <sup>2</sup> )	5,000	5,500	4,500	4,500	
Elongation	%	250%	45%	220%	>300%	>800%
Hardness	Shore D	70	74	70	60	68
<b>Thermal</b>						
HDT at 66 psi - unannealed, .125"	°F	175	180	170	155	
<b>Appearance</b>						
Haze	%	1.5%	1.0%	0.5%	1.5%	
Light Transmission	%	90%	90%	91%	90%	
<b>Other</b>						
Mold Shrinkage	in/in	.003 - .005	.003-.006	.003 - .006	.003 - .006	
Drying	Hrs - °F	NO	NO	NO	NO	NO

The information provided above is based upon typical values. Typical values are intended only as guides. Each customer is responsible for determining whether products and information in this document are appropriate for the customer's use. **NO GUARANTEES OR WARRANTIES ARE EXPRESSED OR IMPLIED.**