

Regis is a TPO (thermoplastic olefin) produced by Noble Polymers based on olefin/elastomer compounding. We have created Regis for use in bumpers and bumper fascias, air dams, exterior panels, material handling, step pads and other applications requiring rigid TPO's. This recyclable product is a tough, high-strength thermoplastic that maintains its properties over a wide temperature range.

Properties	Unit	ASTM	115090	125098	155120	190108	225104	230106	235107	250107	275107	285107	315107
Specific gravity		D792	0.95	0.98	1.20	1.08	1.04	1.06	1.07	1.07	1.07	1.07	1.07
Flexural modulus, tangent	ksi	D790	116	123	153	190	224	230	234	250	275	285	314
Tensile strength, yield	psi	D638	2,579	2,097	1,668	2,902	2,760	2,683	2,888	2,659	2,827	3,383	3,484
Tensile elongation, break	%	D638	665.8	113.1	507.9	185.8	95.1	676	52	523	400	50.0	46.4
Gardner impact at 23 °C	ft-lb	D5420	11.7	10.0	10.0	15.0	4.2	15	15	15	15	16.7	15.0
Gardner impact at -30 °C	ft-lb	D5420	11.7	8.3	10.0	16.7	1.4	17.5	15.8	18.3	18.3	16.7	16.7
Notched izod impact at 23 °C	ft-lb/in	D256	2.87	4.00	7.46	11.40	2.50	10	10.7	10	9.15	8.00	6.40
Notched izod impact at -30 °C	ft-lb/in	D256	1.91	2.38	5.47	8.77	1.20	3.3	2.10	4.4	4.2	2.02	2.22
Melt flow 230 °C, 2.16 kg	g/10 min	D1238	15	27	5	5	9	4	5	4	4	10	7
Linear shrinkage	in/in	D955	0.0083	0.0119	0.0119	0.0100	0.0114	0.01	0.01	0.01	0.01	0.0056	0.0074

Injection Molding Conditions	
Barrel temperatures	375 - 425 °F
Water temperatures	80 - 130 °F

NOTE: While this information is presented in good faith and believed to be accurate, Noble Polymers, nor its parent company does not guarantee satisfactory results from reliance upon such information and disclaims all liability for any loss or damage arising out of its use.

The above information gives typical properties only. Product specifications may be obtained upon request. Final determination of the suitability of any information or material for the use contemplated, the manner of use, and whether there is any infringement of patents is the sole responsibility of the user.



At Noble Polymers, we build compounds that provide innovative solutions to engineering problems. We build relationships that solve many of the common problems customers have with suppliers. We want to work with you to create a solution that makes sense for both your application and your bottom line.



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Properties	Unit	ASTM	6100	6110										
Specific gravity		D792	0.93	0.96										
Flexural modulus, tangent	ksi	D790	230	235										
Tensile strength, yield	psi	D638	4,034	3,730										
Tensile elongation, break	%	D638	160	160										
Gardner impact at 23 °C	ft-lb	D5420	16.7	18.3										
Gardner impact at -30 °C	ft-lb	D5420	17.5	20										
Notched izod impact at 23 °C	ft-lb/in	D256	3.1	6.4										
Notched izod impact at -30 °C	ft-lb/in	D256	2	2.3										
Melt flow 230 °C, 2.16 kg	g/10 min	D1238	10	10										
Linear shrinkage	in/in	D955	0.0014	0.012										

Injection Molding Conditions	
Barrel temperatures	375 - 425 °F
Water temperatures	80 - 130 °F

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