

PSG KOSTRATE EDGE® INJECTION MOLDING OFFERINGS *

PROPERTY	Unit	Kostrate ® Edge LE	Kostrate ® Edge SE	Kostrate ® Edge ME	Kostrate ® Edge HE	Kostrate ® Edge MAX E
Physical						
Specific Gravity	psf (lb/ft ²)	1.08	1.06	1.04	1.02	1.02
Melt Flow	g/10min.	4	6	8	10	4
Mechanical						
Tensile Modulus	psi (lb/in ²)					
Tensile Strength Break	psi (lb/in ²)	8,000	6,500	6,000	5,500	4,000
Flex Modulus	psi (lb/in ²)	450,000	380,000	320,000	270,000	260,000
Flex Strength Yield	psi (lb/in ²)	16,000	12,000	9,000	5,500	6,000
Elongation	%	8%	30%	120%	200%	>200%
Hardness	Shore D	82	78	75	70	67
Dart Drop Impact 0.125 x 2.5" disk	ft lb/in	5	18	25	35	N/B
Notch Izod Impact	ft lb/in					
Thermal						
HDT at 66 psi - unannealed, .125"	Deg. F	210	200	190	185	192
Appearance						
Haze	%	0.5%	1.0%	1.0%	1.0%	2.0%
Light Transmission	%	93%	91%	91%	91%	91%
Other						
Mold Shrinkage	in/in	.003 - .006	.003 - .006	.003 - .006	.003 - .006	.003 - .005
Dishwasher Test	Cycles	300-500	300-500	300-500	300-500	300-500
Drying	Hrs - °F	NO	NO	NO	NO	NO

REPLACES

Engineered Clears

PROPERTY	Unit	Acrylic	Impact Acrylic	PC	ABS	PETG	Rigid PVC
Physical							
Specific Gravity	psf (lb/ft ²)	1.17	1.17	1.21	1.05	1.27	1.35 - 1.40
Melt Flow	g/10min.	5 - 20	5 - 20	4 - 22		4.0 to 35	0.74 to 4.3
Mechanical							
Tensile Modulus	psi (lb/in ²)	425,000					
Tensile Strength Break	psi (lb/in ²)	8,000	5930 to 12300	8250 to 10400	3700 to 8180	3750 to 7360	5300 to 7590
Flex Modulus	psi (lb/in ²)	450,000	400,000	310,000	270,000	300,000	320,000
Flex Strength Yield	psi (lb/in ²)	15,000					
Elongation	%	4%	40%	100%	30%	50 to 150%	40%
Hardness	Shore D	90	59 to 97	70 to 123	94 to 115	106 to 117	99 to 116
Dart Drop Impact 0.125 x 2.5" disk	ft lb/in						
Notch Izod Impact	ft lb/in	0.7	2	15	1	0.5	2
Thermal							
HDT at 66 psi - unannealed, .125"	Deg. F	180	195	269	187	153	150
Appearance							
Haze	%	0.40%	1.0%	1.0%	2.0%	1.0%	1.5 - 2.0%
Light Transmission	%	91%	90 - 92 %	90%	85%	88 - 91 %	80%
Other							
Mold Shrinkage	in/in		.003 - .005	0.003	.003 - .005	0.003	0.005
Dishwasher Test	Cycles	10		25-75			
Drying	Hrs - °F	2-4 Hrs@180	2-4 Hrs@180	2-4 Hrs@190-230	3-4 Hrs@250	2-4 Hrs@160	NO or 2-4 Hrs@160

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