

ENGI- NEERING LIFE

IMPACT

MODIFIER



APPLICATIONS

Impact modification of Virgin & Recycled PP (Polypropylene)

Impact modification of Virgin & Recycled HIPS (High Impact Polystyrene)

Impact modification of Virgin & Recycled HDPE (High Density Polyethylene)

Impact modification of Virgin & Recycled ABS (Acrylonitrile Butadiene Styrene)

Impact modification of Virgin & Recycled PC (Polycarbonate)

Impact modification of Virgin & Recycled PA (Polyamide)

FEATURES



Increases the elasticity of the polymer



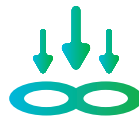
Compatible to many plastics



Decreases the stiffness of the polymer



Increases the impact resistance of the polymer



Resistance to breaking



Increases the impact resistance at low temperatures





BENEFITS OF ELASTRON IMPACT MODIFIER GRADES

Property	Temperature	Products	Impact Strength Values(kj/m ³) at Different Loading Rate of TPE's				
				2%	4%	6%	8%
Polypropylene (PP)	23°C	D400.A53.N	3.40	3.80	4.00	4.20	4.55
		D100.A40.N	3.40	3.65	3.80	4.15	4.35
	-15°C	D400.A53.N	3.00	3.40	3.70	3.80	4.00
		D100.A40.N	3.00	3.50	3.60	4.20	4.50
Recycled Polypropylene Recycle (PP)	23°C	D400.A53.N	2.80	5.80	6.40	7.20	8.10
		D100.A40.N	2.80	5.50	6.10	7.20	8.10
	-15°C	D400.A53.N	2.10	5.35	5.60	5.75	6.30
		D100.A40.N	2.10	5.30	5.50	5.60	6.15
High Impact Polystyrene (HIPS)	23°C	D100.A20.N	9.60	11.70	14.10	15.40	16.00
	-15°C	D100.A20.N	5.60	11.40	13.20	13.80	14.90
Recycled High Impact Polystyrene (Recycled HIPS)	23°C	D400.A30.N	1.89	3.00	3.90	4.60	5.00
		D100.A20.N	1.89	2.75	3.60	4.20	4.70
	-15°C	D400.A30.N	1.27	2.50	3.55	4.10	4.70
		D100.A20.N	1.27	2.45	3.30	3.80	4.40
High Density Polyethylene (HDPE)	23°C	D400.A35.N	9.50	10.50	11.90	13.60	15.80
		D400.A53.N	9.50	10.00	11.50	13.40	15.20
	-15°C	D400.A35.N	5.90	6.20	7.10	7.80	8.60
		D400.A53.N	5.90	6.10	6.90	7.70	8.30
Acrylonitrile Butadiene Styrene (ABS)	23°C	D400.A30.N	16.60	17.60	24.10	24.80	25.90
		G501.A40.N	16.60	20.60	21.70	23.90	24.30
	-15°C	D400.A30.N	12.20	17.50	20.90	22.10	24.20
		G501.A40.N	12.20	17.10	18.80	19.70	22.50
Polycarbonate (PC)	23°C	G400.A12.N	11.70	13.00	47.00	48.00	49.00
		G501.A40.N	11.70	13.00	45.50	47.00	48.00
	-15°C	G400.A12.N	12.70	15.40	16.00	31.50	37.30
		G501.A40.N	12.70	13.90	16.10	32.00	42.70
Polyamide (PA)	23°C	G500.A23.N.PA	5.30	7.24	9.12	11.50	14.00
	-15°C	G500.A23.N.PA	4.10	6.30	7.90	9.20	10.50

