

Proprieties	Method	Unity	General Purpose Polystyrene				
			U285G	U285	U288	U278	U249
MFI (200°C/ 5 kg)	ASTM D 1238	g/10 min	1,5	1,9	4,3	10	19
VICAT Softening Temperature (B/50)	ASTM 1525	°C	105	105	96	90	88
IZOD Impact Strength @ 23 oC	ASTM D 256	J/M	19	19	19	19	19
Tensile Modulus	ASTM D 638	MPa	3250	3250	2800	3000	3200
Tensile Modulus at break	ASTM D 638	MPa	52	52	46	41	40
Elongation at break	ASTM D 638	%	2	2	2	1,5	1,5
Heat Deflection Temperature @ 264psi / 1,82 MPa	ASTM D 648	°C	91	91	81	77	78
Brilho - Gardner 60°	ASTM D 523	%	-	-	-	-	-
	Main processing method		-	Injection moulding	Injection moulding	Injection moulding	Injection moulding
			Extrusion	Extrusion	Extrusion	Co-Extrusion	Co-Extrusion
			-	-	Thermoforming	-	-
	Main applications		Foam process (XPS) and blend with high impact polystyrene	Refrigerator parts, foam process (XPS) and blend with high impact polystyrene	Refrigerator parts, disposable goods, extrusion of transparent sheets and blend with high impact polystyrene	Injected disposable goods, extrusion and co-extrusion	Injection moulding, co-extrusion and multi-cavity moulding

Proprieties	Method	Unity	High Impact Polystyrene				
			U8884	U8854	U8878	U8815	U8875
MFI (200°C/ 5 kg)	ASTM D 1238	g/10 min	2,8	8,5	6	3	3
VICAT Softening Temperature (B/50)	ASTM 1525	°C	90	88	90	92	90
IZOD Impact Strength @ 23 oC	ASTM D 256	J/M	105	90	105	160	95
Tensile Modulus	ASTM D 638	MPa	1600	2000	2000	1800	1350
Tensile Modulus at break	ASTM D 638	MPa	19	20	23	21	17
Elongation at break	ASTM D 638	%	>50	>40	>50	>50	>60
Heat Deflection Temperature @ 264psi / 1,82 MPa	ASTM D 648	°C	85	80	85	71	89
Brilho - Gardner 60°	ASTM D 523	%	-	-	78	92	-
	Main processing method		-	Injection moulding	Injection moulding	Injection moulding	-
			Extrusion	Blow moulding	-	Co-Extrusion	Extrusion
			Thermoforming	-	-	-	Thermoforming
	Main applications		GPPS blends for general use sheet extrusion	Injection, blow-injection and processes that demand fast cycles	Injection moulding	Extrusion of sheets with high gloss, suitable as ABS replacement	Sheet extrusion with excellent stress-cracking resistance (ESCR)

