

# ECO MEPRON IS Z90 BK

## POLYSTYRENE

Polystyrene standard high impact for injection moulding.

General purpose.

### Available:

Natural, all colour.

	PROPERTY	UNIT	STANDARD		VALUE
PHYSICAL	Density (23°C)	g/cm <sup>3</sup>	ASTM D 792	ISO 1183	1,05
	MFI	g/10 min	ASTM D 1238	ISO 1133	7
	MFI condition	°C/kg	ASTM D 1238	ISO 1133	200/5
	Shore	-	ASTM D 2240	ISO 868	75
	Shore condition	A/D	ASTM D 2240	ISO 868	D
	Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-
	Water absorption (saturation)	%	ASTM D 570	ISO 62	-
	Filler content	%	ASTM D 2584	ISO 3451	-
	Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	0,3/0,7
	MECHANICAL	Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256	ISO 180/1A
Izod impact (notch / 0°C) - dry/cond		J/m	ASTM D 256	ISO 180/1A	-
Tensile yield strenght - dry/cond		N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-
Tensile yield strain - dry/cond		%	ASTM D 638	ISO 527-2	25
Tensile break strenght - dry/cond		N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	-
Elongation at break - dry/cond		%	ASTM D 638	ISO 527-2	35
Tensile modulus - dry/cond		N/mm <sup>2</sup>	ASTM D 638	ISO 527-2	2100
Flexural modulus - dry/cond		N/mm <sup>2</sup>	ASTM D 790	ISO 178	2300
THERMAL	HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-
	HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	74
	VICAT (10 N)	°C	ASTM D 1525	ISO 306	-
	VICAT (50 N)	°C	ASTM D 1525	ISO 306	82
	Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	-
FR	Flame behaviour	-	UL94		-



ECO compounds are made utilizing 30% of recycled polymers at least. These products are certified certified by CSI CERT and branded with "CSI Recycled plastic (Secondary Raw Material)".

The above values are provided for general information only. The data contained in this document is based on trials carried out by our laboratory. It shall, however, in no event be held to constitute or imply any warranty, undertaking express or implied commitment from our part.