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TECHNICAL DATA SHEET

MICROCENE MC181

A second generation, metallocene medium density polyethylene, with Hexene as co-monomer, suitable for rotational moulded items requiring superior mechanical properties. Outstanding process and product benefits result from using polymers of narrow molecular weight distribution and low viscosity at zero shear rates.

REDUCED CYCLE TIME
Faster fusion, compacting and crystallisation allows for reduced cycle times or lower oven temperatures.

REDUCED WEIGHT / BETTER DISTRIBUTION
Improved wall thickness control resulting from Microcene's excellent flow properties holds out the prospect of weight reduction.

BROADER PROCESSING CHARACTERISTICS
Less variation in colour and impact properties at different cycle times is particularly helpful to the moulder running a range of tools on multi-arm machines. Consistency of impact performance on 'under-cooked' or 'overcooked' parts of the same moulding is another benefit of Metallocene technology.

IMPROVED MECHANICAL PROPERTIES
The narrower molecular weight distribution compared to other linear copolymers gives improved impact resistance, lower warpage, better creep resistance and better definition / smoothness of inner and outer surface finishes.

This grade is available in a full range of colours, flame retardancy, UV and antistatic protection levels.

PHYSICAL PROPERTY	TEST METHOD	UNITS	VALUE
Melt Flow Index (190/2.16)	ISO 1133	g/10min	6.0
Density	ISO 1183	g/cm³	0.935
Tensile Strength at Yield (50 mm/min)	ISO 527	MPa	18
Elongation at Break	ISO 527	%	>700
Flexural Modulus (5mm/min)	ISO 178	MPa	700
Melting Point	ISO 11357	°C	123
Vicat Softening Point	ISO 306	°C	121

The specialised shape and distribution of this Metallocene powder has been developed through direct experience of the Rotational Moulding process

The information given above is typical for the material. It should only be used for the purpose of comparison and does not guarantee performance under end use conditions.