

## DSM Stapron® E EM 605 Polycarbonate/PET Blend (European Grade) (discontinued \*\*)

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/PET Polyester Blend , Polyester, TP , Polyethylene Terephthalate (PET)

### Material Notes:

Information provided by DSM.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DSM-Stapron-E-EM-605-PolycarbonatePET-Blend-European-Grade-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_DSM-Stapron-E-EM-605-PolycarbonatePET-Blend-European-Grade-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.35 %	0.35 %	Sim. to ISO 62
Melt Flow	8.47 g/10 min @Load 1.20 kg, Temperature 280 °C	8.47 g/10 min @Load 2.65 lb, Temperature 536 °F	Calculated from Volume Flow Rate of 7 cm <sup>3</sup> /10min.; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	ISO 527-1/-2
Elongation at Yield	6.0 %	6.0 %	ISO 527-1/-2
Tensile Modulus	2.20 GPa	319 ksi	ISO 527-1/-2
Flexural Strength	80.0 MPa	11600 psi	ISO 178
Flexural Modulus	2.20 GPa	319 ksi	ISO 178
Izod Impact, Notched (ISO)	40.0 kJ/m <sup>2</sup> @Temperature -40.0 °C	19.0 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	ISO 180/4A
	60.0 kJ/m <sup>2</sup> @Temperature -20.0 °C	28.6 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	ISO 180/4A
	70.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	33.3 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180/4A
Charpy Impact Unnotched	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179/1eU
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	2.50 J/cm <sup>2</sup>	11.9 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	5.50 J/cm <sup>2</sup>	26.2 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-1/-2
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	120 °C	248 °F	ISO 75-1/-2
Vicat Softening Point	125 °C	257 °F	50°C/h 50N; ISO 306
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Descriptive Properties	Value	Comments
Heat stabilized or stable to heat	Yes	
High impact or impact modified	Yes	
Injection molding	Yes	
Without Fillers	Yes	

## Contact Songhan Plastic Technology Co.,Ltd.

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