

Expandable Graphite Flakes

Technical Data Sheet

ONSET TEMPERATURE	USE WHEN	APPLICATIONS
160°C*	High expansion is required at low temperatures	Intumescent putties, sealants and mats Fire-retardant foams for building insulation, transportation seating
220°C	Mixing, extruding or processing at higher temperatures	Fire-retardant additive in plastics: Polyethylene Polypropylene High-impact polystyrene
250°C	Processing temperatures are high	Fire-retardant additive in plastics: Polyethylene Polypropylene High-impact polystyrene

Expansion Performance

GRADE	TYPICAL EXPANSION VOLUME AT 600°C (CM ³ /G)	MESH	USE WHEN	MEAN PARTICLE SIZE
160-50	250	65% on 50 mesh nominal	Maximum expansion is desired	350 micron typical
160-80	200	65% on 80 mesh nominal	Particles must be widely distributed, Particles must pass through a small orifice	250 micron typical
180-60	260	65% on 50 mesh nominal	Fast, high expansion is desired	320 micron typical
200-100	175	65% on 100 mesh nominal	Fine particle size is required	150 micron typical
210-140	80	65% on 140 mesh nominal	Very fine particle size is required	105 micron typical
220-50	200	65% on 50 mesh nominal	Maximum expansion is desired	350 micron typical
220-80	100	65% on 80 mesh nominal	Particles must be widely distributed, Particles must pass through a small orifice	250 micron typical
250-50	200**	65% on 50 mesh nominal	Processing temperatures are too high to use other grades	350 micron typical