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Material characteristics

	EPS Expanded polystyrene	**Re-EPS**[1] Expanded polystyrene **Recyclet 100%**	**EPS / EPE** Expanded copolymer Polystyrene / polyethylene
Expension agent	Pentane	Pentane	Butane
Part density (g/l)[2]	15-410	20-40	16-65
Heat distortion temperature (°C)	+80	+80	+85
Flame retardant	Possible	No[1]	No
Resilience	Very low	Very low	Good
Creep behaviour	Very good	Very good	Good
Antistatic properties	Possible	Possible	Possible
Water absorption (vol.%)	~ 1.0-1.5	~ 1.0-1.5	-
Thermal conductivity (W/m*K)	0.030-0.038	0.030-0.038	0.037-0.040
Thermal expansion (10^{-6}/K)	50-70	50-70	50-70
Colours, standard			
Other colours, non-standard		-	-
Colours, dyed			-
Food compatibility	Yes	Yes / No[1]	Yes / No

[1]We would be happy to advise you when considering the use of recyclate in products.
[2]Depending on component geometry.
[3]An application-specific approach is recommended. We would be happy to advise you on this.

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Material characteristics

	EPP Expanded polypropylene	**Re-EPP**[1] Expandiertes Polypropylen **Recyclet 15 - 90%**	**P-EPP** Expanded, porous polypropylene
Expension agent	Air	Air	Air
Part density (g/l)[2]	20-140	20-95	30-55
Heat distortion temperature (°C)	+110	+110	+110
Flame retardant	Possible	No	No
Resilience	Very good	Very good	Very good
Creep behaviour	Good	Good	Good
Antistatic properties	Possible	No	No
Water absorption (vol.%)	~ 1.0-1.5	~ 1.0-1.5	~ 1.0-1.5
Thermal conductivity (W/m*K)	0.035-0.047	0.035-0.047	-
Thermal expansion (10^{-6}/K)	100	100	100
Colours, standard			
Other colours, non-standard	New colours from 10 tonnes upwards	-	-
Colours, dyed	-	-	-
Food compatibility	Yes	No	Yes

[1]We would be happy to advise you when considering the use of recyclate in products.
[2]Depending on component geometry.
[3]An application-specific approach is recommended. We would be happy to advise you on this.

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Material characteristics

	Tara-foam Bio Expanded bio-based and biodegradable biodegradable material	**PS / PPE** Polystyrene/expanded copolymer / polyphenylene ether	**x EPE** Expanded, cross-linked polyethylene tara-foam® E
Expension agent	Air	Inorganic gas	Air
Part density (g/l)[2]	50-85	100-200	20-100
Heat distortion temperature (°C)	+110	+90	+90
Flame retardant	No	Flame retardant	No
Resilience	Good	Very low	Very good
Creep behaviour	Good	Very good	Sufficient
Antistatic properties	No	No	Possible
Water absorption (vol.%)	5-7	-	~ 0.1
Thermal conductivity (W/m*K)	0.034	0.038-0.041	0.036-0.045
Thermal expansion (10^{-6}/K)	-	50	300
Colours, standard			
Other colours, non-standard	-	-	-
Colours, dyed	On request	-	-
Food compatibility	Yes[3]	No	Yes

[1]We would be happy to advise you when considering the use of recyclate in products.
[2]Depending on component geometry.
[3]An application-specific approach is recommended. We would be happy to advise you on this.