

Raschig Group PiMC 1221 High gloss

Category : Other Engineering Material , Ceramic/Metallic Coating

Material Notes:

PiMC is a Powder in-Mould Coating designed to improve the surface quality, durability and aesthetic appearance of SMC/BMC products. The PiMC is electro statically sprayed onto the heated mould surface just prior to the molding of SMC/BMC. PiMC 1221 is characterized by its improved weathering- and UV-resistance. It is therefore particularly suited for outdoor applications. Information provided by Raschig Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Raschig-Group-PiMC-1221-High-gloss.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 - 1.50 g/cc	1.30 - 1.50 g/cc	
Bulk Density	0.600 - 0.700 g/cc	0.0217 - 0.0253 lb/in ³	
Particle Size	10.0 - 25.0 µm	10.0 - 25.0 µm	D 0.1, SATP-114, Malvern method
	50.0 - 75.0 µm	50.0 - 75.0 µm	D 0.5, SATP-114, Malvern method
	100 - 175 µm	100 - 175 µm	D 0.9, SATP-114, Malvern method
Storage Temperature	<= 20.0 °C	<= 68.0 °F	

Mechanical Properties	Metric	English	Comments
Elongation at Break	2.00 - 5.00 %	2.00 - 5.00 %	ASTM D790
Flexural Strength	30.0 - 60.0 MPa	4350 - 8700 psi	ASTM D790
Flexural Modulus	5.00 - 10.0 GPa	725 - 1450 ksi	ASTM D790
Abrasion	<= 0.500	<= 0.500	[g] S42 paper, 500 turns; DIN 53799
	@Load 0.500 kg	@Load 1.10 lb	

Optical Properties	Metric	English	Comments
Gloss	55.0 %	55.0 %	20°
	82.0 %	82.0 %	60°
	93.0 %	93.0 %	85°

Processing Properties	Metric	English	Comments
Shelf Life	6.00 Month	6.00 Month	

Descriptive Properties	Value	Comments
Brabender cycle time	75-115 s	150°C, SATP-104
Powder stability	>8 hrs	30°C, SATP-128
Scratch resistance	>2 N	DIN 53799
Stone chip resistance	3 Class	VDA

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