

Denka TX Polymer TX-300

Description

TX-300 is a copolymer of styrene and Methyl Methacrylate developed by Denka's unique copolymer technology. It is a cost-effective grade while retaining the advantage of MS such as high transparency and dimensional stability.

High flowability and good mould releasability of TX-300 allows higher productivity of moulded articles. It is designed as an injection moulding grade.

It is available in pellet form.

Properties

	Standard	Conditions	Unit	TX-300
Melt Mass-Flow Rate	ISO 1133	200°C, 49N	g/10min	2.1
		230°C, 37.3N	g/10min	8.6
Total Transmittance	ISO 13468	2mmt	%	92
Haze	ISO 14782	2mmt	%	0.2
Refractive Index	ISO 489	Sodium D Line	-	1.56
Abbe Value	ISO 489	23°C	-	36
Charpy Impact Strength	ISO 179	Notched, 23°C	KJ/m ²	2
		Unnotched, 23°C	KJ/m ²	15
Tensile Stress at Break	ISO 527	5mm/min, 23°C	MPa	65
Tensile Strain at break			%	5
Flexural Stress	ISO 178	2mm/min, 23°C	MPa	110
Flexural Modulus			MPa	3,300
Rockwell Hardness	ISO 2039	M Scale	-	75
Pencil Hardness	ISO 15184	750g	-	H
Vicat Softening Temperature	ISO 306	B/50, 50N, 50°C/hr	°C	98
Deflection Temperature Under Load	ISO 75	1.8MPa, Flatwise Unannealed	°C	80
Density	ISO 1183	23°C	kg/m ³	1,088
Water Absorption	ISO 62	23°C, Water immersion	%	0.28
		23°C, 50%RH	%	0.12

Note: Values listed in the table are typical and not guaranteed

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